Berliner
Astronomisches Jahrbuch

für

1 9 4 0

---

165. Jahrgang

Herausgegeben von dem

Astronomischen Rechen-Institut





In Kommission bei
Ferd. Dümmlers Verlag, Berlin SW 68 u. Bonn

1938



Astronomisches Rechen-Institut

Berlin-Dahlem, Altensteinstr. 40

Direktor:	Dr. A. Kopff, Universitätsprofessor
Observatoren:	Dr. G. Stracke, Professor
	Dr. O. Kohl, Professor
	Dr. A. Kahrstedt
	Dr. K. Heinemann
	Dr. habil. W. Schaub, Dozent
Assistenten:	Dr. F. Gondolatsch
	Dr. habil. H. Müller
	Dr. U. Baehr
	Dr. E. Rabe
Hilfsrechner:	R. Hiller
Mitarbeiter:	Dr. H. Nowacki

Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Für Pluto die Elemente von E. C. Bower. (Näheres siehe Erläuterungen.)

Als Sonnenhalbmesser in der mittleren Entfernung ist $16' 1''.50$ angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert $15' 59''.63$ zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_☾$ ist aus der Äquatorial-Horizontalparallaxe $p_☾$ gerechnet nach der Formel

$$r_☾ = 0.272469\, p_☾ + 1''.50,$$

für die Finsternisse nach $\sin r_☾ = 0.272274 \sin p_☾$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Dritter Fundamentalkatalog des Berliner Astronomischen Jahrbuchs (Veröffentlichungen des Astronomischen Rechen-Instituts zu Berlin-Dahlem Nr. 54).

Die Sterngrößen und Sternspektra sind dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. **28**, 67)
Die Nutations-Konstante . . . . . 9″21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. **15**, 241)
Die Aberrations-Konstante . . . . 20″47
Die Sonnen-Parallaxe . . . . 8″80
Die Abplattung der Erde . . . . 1 : 297

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. und G. Struve sowie von J. Woltjer ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr keine wesentlichen Änderungen erfahren, jedoch sei erwähnt, daß in einem Anhang die mittleren Örter und Eigenbewegungen der Zusatzsterne des Dritten Fundamentalkataloges für die Jahre 1940—1943 gegeben sind.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, des Nautical Almanac Office, London, und des Bureau des Longitudes, Paris, zur Verfügung gestellt.

Die Leitung der Arbeiten am Astronomischen Jahrbuch für 1940 lag in den Händen von Prof. Dr. Kohl; an der Bearbeitung der verschiedenen Teile beteiligten sich außerdem die Herren Dr. Müller, Dr. Baehr und mehrere Hilfsarbeiter.

Astronomisches Rechen-Institut

Inhalt

Zeit- und Festrechnung 1940

Das Jahr 1940 entspricht dem
Jahr 6653 der Julianischen Periode und dem
Jahr 7448—7449 der Byzantinischen Ära.

Gregorianischer Kalender

Goldene Zahl	3
Epakte	XXI
Sonnenzirkel	17
Sonntagsbuchstabe	GF

Septuagesima	21. Jan.
Aschermittwoch	7. Febr.
I. Quatember	14. Febr.
Ostersonntag	24. März
Himmelfahrt	2. Mai
Pfingstsonntag	12. Mai
II. Quatember	15. Mai
III. Quatember	18. Sept.
I. Advent	1. Dez.
IV. Quatember	18. Dez.

Dimensionen der Erde

a) Nach Bessel (1841)

Große Halbachse	$a = 6\,377\,397.155$ m	$\log a = 6.804\ 6334\ 637$
Kleine Halbachse	$b = 6\,356\,078.963$ m	$\log b = 6.803\ 1892\ 839$
Abplattung	$\alpha = 1:299.152\,8129$	$\log \alpha = 7.524\ 1069\ 092-10$
Meridianquadrant	$= 10\,000\,855.76$ m	

Die Maßeinheit der Länge ist das legale Meter.

b) Nach Hayford (1909)

Große Halbachse	$a = 6\,378\,388$ m	$\log a = 6.804\ 7109\ 340$
Kleine Halbachse	$b = 6\,356\,911.946$ m	$\log b = 6.803\ 2461\ 958$
Abplattung	$\alpha = 1:297$	$\log \alpha = 7.527\ 2435\ 507-10$
Meridianquadrant	$= 10\,002\,288.30$ m	

Die Maßeinheit der Länge ist das internationale Meter.

Ein internationales Meter = 1.000 0133 legales Meter.

Beschleunigung durch die Schwerkraft:

$g = 980.616 - 2.5928 \cos 2\varphi + 0.0068 \cos^2 2\varphi$ cm. gr. sec. (Helmert 1908)

Masse der Erde: $5.974 \cdot 10^{27}$ gr.

Masse der Sonne: $1.983 \cdot 10^{33}$ gr.

Radius der Sonne: 695 300 km.

Mittlere Entfernung Erde — Sonne: 149 504 200 km

Lichtzeit für die mittlere Entfernung Erde—Sonne: $498^{s}.72$ (mit Lichtgeschwindigkeit 299 774 km/sec.)

Astronomische Konstanten

Allgemeine Präzession	$\psi = 50.''2564 + 0.''000222\,t$
Präzession in Rektaszension	$m = 3.^s07234 + 0.^s0000186\,t$
Präzession in Deklination	$n = 20.''0468 - 0.''000085\,t$
Mittlere Schiefe der Ekliptik	$\varepsilon = 23^\circ\,27'\,8.''26 - 0.''4684\,t$
Länge d. aufsteig. Knotens d. bewegl. a. d. festen Ekliptik	$\Pi = 173^\circ\,57'\,3.''6 + 32.''862\,t$
Winkel zwischen fester u. bewegl. Ekliptik	$\pi = 0.''4711 - 0.''000007\,t$

Länge des tropischen Jahres	$365.^d24219879 - 0.^d0000000614\,t$
„ „ siderischen „	$365.25636042 + 0.0000000011\,t$
„ „ anomalistischen „	$365.25964134 + 0.0000000304\,t$
„ „ julianischen „	365.25

t = Zeit seit 1900 in julianischen Jahren

Länge des synodischen Monats	$29.^d530588$
„ „ tropischen „	27.321582
„ „ siderischen „	27.321661
„ „ anomalistischen „	27.554550

Länge des mittleren Sonnentages $= 24^h\,3^m\,56.^s555$ Sternzeit $= 1.00273791$ Sterntag

Länge des mittl. Sterntages $= 23^h\,56^m\,4.^s091$ mittl. Zeit $= 0.99726957$ mittl. Sonnentag

Äquatoreal-Horizontalparallaxe des Mondes . . . . $57'\,2.''70$

Gravitationskonstante nach Gauß $k = 0.017202099 = 3548.''18761$

$\log k = 8.23558144-10 \quad \log k'' = 3.55000657$

1 Lichtjahr $= 63275$ Astr. Einh. $= 0.3068$ Parsek $= 9.460 \cdot 10^{12}$ km

1 Parsek $= 206264.806$ Astr. Einh. $= 3.2598$ Lichtjahre $= 30.84 \cdot 10^{12}$ km

Elemente der Planetenbahnen für 1940 Jan. 0, 0^h Welt-Zeit

	Ω (°)	i (°)	$\tilde{\omega}$ (°)	e
Merkur	47.620	7.004	76.522	0.205622
Venus	76.140	3.394	130.727	0.006802
Erde	—	—	101.909	0.016734
Mars	49.095	1.850	334.955	0.093350
Jupiter	99.848	1.306	13.365	0.048400
Saturn	113.140	2.491	91.882	0.055754
Uranus	73.677	0.773	172.142	0.046334
Neptun	131.121	1.775	47.297	0.009000
Pluto	109.633	17.144	223.175	0.248644

	a	L (°)	$n_{sid.}$ (°)	$P_{sid.}$ (a)	(d)
Merkur	0.387099	201.669	4.09234	0	87.9693
Venus	0.723331	348.049	1.60213	0	224.7008
Erde	1.000000	98.526	0.98561	1	0.0142
Mars	1.523688	29.641	0.52403	1	321.7375
Jupiter	5.202561	12.446	0.08309	11	314.925
Saturn	9.554747	35.918	0.03346	29	167.21
Uranus	19.21814	56.125	0.01173	84	8.11
Neptun	30.10957	172.403	0.00598	164	281.6
Pluto	39.51774	151.081	0.00397	248	157

Merkur bis Mars nach Newcomb, Jupiter bis Neptun nach Leverrier und Gaillot, Pluto nach Bower. Für Pluto sind baryzentrische Elemente bezogen auf Ekliptik und mittleres Äquinoktium 1950.0 gegeben.

Astronomische Zeichen und Abkürzungen

Bezeichnung der Wochentage

- ☉ Sonntag
- ☾ Montag
- ♂ Dienstag
- ☿ Mittwoch
- ♃ Donnerstag
- ♀ Freitag
- ♄ Sonnabend

Adspekten

- ☌ Konjunktion
- □ Quadratur
- ☍ Opposition

Mondphasen

- ● Neumond
- ☽ Erstes Viertel
- ○ Vollmond
- ☾ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Absteigender } Knoten

Zeichen

des Tierkreises und der Himmelskörper

♈ Widder . . .	0	Grad		
♉ Stier	30	»	☉	Sonne
♊ Zwillinge . . .	60	»	☾	Mond
♋ Krebs	90	»	☿	Merkur
♌ Löwe	120	»	♀	Venus
♍ Jungfrau . . .	150	»	♁	Erde
♎ Waage . . .	180	»	♂	Mars
♏ Skorpion . . .	210	»	♃	Jupiter
♐ Schütze . . .	240	»	♄	Saturn
♑ Steinbock . .	270	»	♅	Uranus
♒ Wassermann .	300	»	♆	Neptun
♓ Fische	330	»		

Sonne, Mond, Große Planeten

1940

Tag		Wochentag	0h Welt-Zeit: Zeitgleichung, Wahre Zeit *minus* Mittlere Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1940										
Jan.	0	St	− 2 28.98	28.84	18 36 34.30	4 25.40	−23 10 42.5	4 6.0	71.13	16 17.85
	1	Mo	2 57.82	28.59	18 40 59.70	4 25.15	23 6 36.5	4 33.7	71.09	16 17.85
	2	Di	3 26.41	28.30	18 45 24.85	4 24.85	23 2 2.8	5 1.3	71.05	16 17.86
	3	Mi	3 54.71	27.98	18 49 49.70	4 24.54	22 57 1.5	5 28.8	71.01	16 17.86
	4	Do	4 22.69	27.63	18 54 14.24	4 24.19	22 51 32.7	5 56.1	70.97	16 17.85
	5	Fr	4 50.32	27.25	18 58 38.43	4 23.80	22 45 36.6	6 23.2	70.91	16 17.84
	6	Sa	− 5 17.57	26.83	19 3 2.23	4 23.39	−22 39 13.4	6 50.2	70.85	16 17.83
	7	St	5 44.40	26.38	19 7 25.62	4 22.95	22 32 23.2	7 16.9	70.79	16 17.81
	8	Mo	6 10.78	25.91	19 11 48.57	4 22.46	22 25 6.3	7 43.4	70.73	16 17.78
	9	Di	6 36.69	25.40	19 16 11.03	4 21.96	22 17 22.9	8 9.6	70.67	16 17.76
	10	Mi	7 2.09	24.86	19 20 32.99	4 21.41	22 9 13.3	8 35.7	70.59	16 17.73
	11	Do	7 26.95	24.29	19 24 54.40	4 20.85	22 0 37.6	9 1.4	70.52	16 17.69
	12	Fr	− 7 51.24	23.70	19 29 15.25	4 20.26	−21 51 36.2	9 27.0	70.44	16 17.65
	13	Sa	8 14.94	23.09	19 33 35.51	4 19.64	21 42 9.2	9 52.2	70.36	16 17.61
	14	St	8 38.03	22.44	19 37 55.15	4 19.00	21 32 17.0	10 17.1	70.27	16 17.56
	15	Mo	9 0.47	21.77	19 42 14.15	4 18.33	21 21 59.9	10 41.8	70.19	16 17.51
	16	Di	9 22.24	21.09	19 46 32.48	4 17.65	21 11 18.1	11 6.0	70.10	16 17.46
	17	Mi	9 43.33	20.39	19 50 50.13	4 16.94	21 0 12.1	11 30.1	70.00	16 17.40
	18	Do	−10 3.72	19.67	19 55 7.07	4 16.23	−20 48 42.0	11 53.8	69.91	16 17.34
	19	Fr	10 23.39	18.93	19 59 23.30	4 15.48	20 36 48.2	12 17.1	69.81	16 17.27
	20	Sa	10 42.32	18.18	20 3 38.78	4 14.74	20 24 31.1	12 40.2	69.71	16 17.19
	21	St	11 0.50	17.42	20 7 53.52	4 13.97	20 11 50.9	13 2.9	69.61	16 17.11
	22	Mo	11 17.92	16.65	20 12 7.49	4 13.20	19 58 48.0	13 25.3	69.51	16 17.03
	23	Di	11 34.57	15.87	20 16 20.69	4 12.43	19 45 22.7	13 47.2	69.40	16 16.94
	24	Mi	−11 50.44	15.08	20 20 33.12	4 11.64	−19 31 35.5	14 9.0	69.30	16 16.84
	25	Do	12 5.52	14.29	20 24 44.76	4 10.85	19 17 26.5	14 30.2	69.19	16 16.74
	26	Fr	12 19.81	13.51	20 28 55.61	4 10.06	19 2 56.3	14 51.2	69.08	16 16.63
	27	Sa	12 33.32	12.71	20 33 5.67	4 9.27	18 48 5.1	15 11.8	68.96	16 16.51
	28	St	12 46.03	11.92	20 37 14.94	4 8.47	18 32 53.3	15 32.0	68.85	16 16.39
	29	Mo	12 57.95	11.13	20 41 23.41	4 7.68	18 17 21.3	15 51.9	68.74	16 16.26
	30	Di	−13 9.08	10.33	20 45 31.09	4 6.89	−18 1 29.4	16 11.3	68.63	16 16.13
	31	Mi	13 19.41	9.53	20 49 37.98	4 6.08	17 45 18.1	16 30.4	68.51	16 16.00
Febr.	1	Do	13 28.94	8.73	20 53 44.06	4 5.29	17 28 47.7	16 49.0	68.40	16 15.85
	2	Fr	13 37.67	7.94	20 57 49.35	4 4.49	17 11 58.7	17 7.3	68.28	16 15.70
	3	Sa	13 45.61	7.13	21 1 53.84	4 3.69	16 54 51.4	17 25.1	68.16	16 15.56
	4	St	13 52.74	6.33	21 5 57.53	2.89	16 37 26.3	17 42.5	68.05	16 15.40
	5	Mo	−13 59.07	5.53	21 10 0.42	4 2.08	−16 19 43.8	17 59.5	67.93	16 15.24
	6	Di	14 4.60	4.73	21 14 2.50	4 1.28	16 1 44.3	18 16.0	67.82	16 15.08
	7	Mi	14 9.33	3.92	21 18 3.78	4 0.48	15 43 28.3	18 32.2	67.71	16 14.92
	8	Do	14 13.25	3.13	21 22 4.26	3 59.68	15 24 56.1	18 47.9	67.59	16 14.75
	9	Fr	14 16.38	2.32	21 26 3.94	3 58.88	15 6 8.2	19 3.2	67.48	16 14.58
	10	Sa	−14 18.70		21 30 2.82		−14 47 5.0		67.37	16 14.41

Tag	0ʰ Welt-Zeit: Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0ʰ Länge}	Untergang in {+50° Breite, 0ʰ Länge}
1940	2429	h m s	" in 0.001		° ' "	' "	" in 0.01			h m	h m
Jan. 0	628.5	6 34 5.323	+488	+ 8	278 24 10.9	61 8.6	−33	9.992 6791	41	7 59	16 7
1	629.5	6 38 1.880	490	+ 3	279 25 19.5	61 9.0	−22	9.992 6750	17	7 59	16 8
2	630.5	6 41 58.437	492	− 2	280 26 28.5	61 9.4	−10	9.992 6733	6	7 59	16 9
3	631.5	6 45 54.995	494	− 6	281 27 37.9	61 9.8	+ 4	9.992 6739	27	7 59	16 10
4	632.5	6 49 51.552	496	− 8	282 28 47.7	61 10.1	+18	9.992 6766	47	7 58	16 11
5	633.5	6 53 48.109	497	− 8	283 29 57.8	61 10.2	+31	9.992 6813	67	7 58	16 12
6	634.5	6 57 44.666	+499	− 5	284 31 8.0	61 10.4	+44	9.992 6880	85	7 58	16 13
7	635.5	7 1 41.223	501	− 2	285 32 18.4	61 10.4	+54	9.992 6965	102	7 58	16 14
8	636.5	7 5 37.780	502	+ 3	286 33 28.8	61 10.3	+61	9.992 7067	119	7 57	16 15
9	637.5	7 9 34.337	504	+ 7	287 34 39.1	61 10.1	+66	9.992 7186	135	7 57	16 17
10	638.5	7 13 30.894	506	+10	288 35 49.2	61 9.8	+68	9.992 7321	152	7 56	16 18
11	639.5	7 17 27.451	507	+11	289 36 59.0	61 9.5	+67	9.992 7473	169	7 56	16 19
12	640.5	7 21 24.007	+508	+11	290 38 8.5	61 9.1	+64	9.992 7642	187	7 55	16 20
13	641.5	7 25 20.564	510	+ 9	291 39 17.6	61 8.5	+59	9.992 7829	205	7 55	16 22
14	642.5	7 29 17.121	511	+ 5	292 40 26.1	61 7.9	+52	9.992 8034	223	7 54	16 23
15	643.5	7 33 13.677	512	0	293 41 34.0	61 7.3	+42	9.992 8257	243	7 54	16 25
16	644.5	7 37 10.234	513	− 5	294 42 41.3	61 6.5	+31	9.992 8500	263	7 53	16 26
17	645.5	7 41 6.790	515	− 9	295 43 47.8	61 5.8	+19	9.992 8763	283	7 52	16 28
18	646.5	7 45 3.347	+515	−13	296 44 53.6	61 5.0	+ 7	9.992 9046	306	7 51	16 29
19	647.5	7 48 59.903	516	−15	297 45 58.6	61 4.1	− 5	9.992 9352	329	7 51	16 31
20	648.5	7 52 56.459	517	−14	298 47 2.7	61 3.2	−17	9.992 9681	353	7 50	16 32
21	649.5	7 56 53.015	518	−11	299 48 5.9	61 2.3	−27	9.993 0034	378	7 49	16 34
22	650.5	8 0 49.571	518	− 5	300 49 8.2	61 1.5	−34	9.993 0412	405	7 48	16 36
23	651.5	8 4 46.127	519	+ 1	301 50 9.7	61 0.6	−39	9.993 0817	432	7 47	16 37
24	652.5	8 8 42.683	+519	+ 6	302 51 10.3	60 59.7	−42	9.993 1249	459	7 45	16 39
25	653.5	8 12 39.238	520	+ 9	303 52 10.0	60 58.9	−41	9.993 1708	487	7 44	16 40
26	654.5	8 16 35.794	520	+11	304 53 8.9	60 58.2	−37	9.993 2195	515	7 43	16 42
27	655.5	8 20 32.350	520	+ 9	305 54 7.1	60 57.5	−29	9.993 2710	541	7 42	16 44
28	656.5	8 24 28.905	520	+ 5	306 55 4.6	60 56.8	−19	9.993 3251	566	7 41	16 45
29	657.5	8 28 25.460	520	0	307 56 1.4	60 56.2	− 7	9.993 3817	590	7 39	16 47
30	658.5	8 32 22.015	+520	− 4	308 56 57.6	60 55.5	+ 5	9.993 4407	613	7 38	16 48
31	659.5	8 36 18.571	520	− 7	309 57 53.1	60 54.8	+19	9.993 5020	633	7 37	16 50
Febr. 1	660.5	8 40 15.126	520	− 7	310 58 47.9	60 54.1	+33	9.993 5653	652	7 36	16 52
2	661.5	8 44 11.681	520	− 6	311 59 42.0	60 53.3	+45	9.993 6305	670	7 34	16 54
3	662.5	8 48 8.236	519	− 2	313 0 35.3	60 52.4	+55	9.993 6975	687	7 33	16 55
4	663.5	8 52 4.790	518	+ 3	314 1 27.7	60 51.5	+62	9.993 7662	701	7 31	16 57
5	664.5	8 56 1.345	+517	+ 7	315 2 19.2	60 50.6	+67	9.993 8363	715	7 30	16 59
6	665.5	8 59 57.899	516	+10	316 3 9.8	60 49.5	+70	9.993 9078	729	7 28	17 1
7	666.5	9 3 54.454	515	+12	317 3 59.3	60 48.3	+69	9.993 9807	742	7 27	17 3
8	667.5	9 7 51.008	514	+11	318 4 47.6	60 47.1	+66	9.994 0549	753	7 25	17 4
9	668.5	9 11 47.562	513	+10	319 5 34.7	60 45.7	+61	9.994 1302	766	7 24	17 6
10	669.5	9 15 44.116	+512	+ 6	320 6 20.4		+53	9.994 2068		7 22	17 8

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit)	Diff.	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr. 10	Sa	−14 18.70	1.53	21 30 2.82	3 58.09	−14 47 5.0	19 18.1	67.37	16 14.41
11	St	14 20.23	0.75	21 34 0.91	3 57.30	14 27 46.9	19 32.4	67.26	16 14.23
12	Mo	14 20.98	0.03	21 37 58.21	3 56.51	14 8 14.5	19 46.5	67.15	16 14.06
13	Di	14 20.95	0.81	21 41 54.72	3 55.75	13 48 28.0	20 0.0	67.04	16 13.88
14	Mi	14 20.14	1.58	21 45 50.47	3 54.97	13 28 28.0	20 13.2	66.93	16 13.69
15	Do	14 18.56	2.34	21 49 45.44	3 54.22	13 8 14.8	20 25.9	66.82	16 13.51
16	Fr	−14 16.22	3.08	21 53 39.66	3 53.47	−12 47 48.9	20 38.2	66.72	16 13.32
17	Sa	14 13.14	3.82	21 57 33.13	3 52.74	12 27 10.7	20 50.1	66.61	16 13.13
18	St	14 9.32	4.54	22 1 25.87	3 52.01	12 6 20.6	21 1.6	66.51	16 12.93
19	Mo	14 4.78	5.25	22 5 17.88	3 51.30	11 45 19.0	21 12.6	66.41	16 12.73
20	Di	13 59.53	5.95	22 9 9.18	3 50.61	11 24 6.4	21 23.3	66.31	16 12.52
21	Mi	13 53.58	6.62	22 12 59.79	3 49.93	11 2 43.1	21 33.5	66.21	16 12.32
22	Do	−13 46.96	7.28	22 16 49.72	3 49.28	−10 41 9.6	21 43.5	66.12	16 12.11
23	Fr	13 39.68	7.91	22 20 39.00	3 48.64	10 19 26.1	21 52.9	66.03	16 11.89
24	Sa	13 31.77	8.52	22 24 27.64	3 48.03	9 57 33.2	22 2.1	65.94	16 11.67
25	St	13 23.25	9.12	22 28 15.67	3 47.43	9 35 31.1	22 10.8	65.85	16 11.44
26	Mo	13 14.13	9.69	22 32 3.10	3 46.86	9 13 20.3	22 19.2	65.76	16 11.21
27	Di	13 4.44	10.25	22 35 49.96	3 46.31	8 51 1.1	22 27.1	65.68	16 10.97
28	Mi	−12 54.19	10.77	22 39 36.27	3 45.78	−8 28 34.0	22 34.7	65.59	16 10.73
29	Do	12 43.42	11.29	22 43 22.05	3 45.26	8 5 59.3	22 41.9	65.51	16 10.49
März 1	Fr	12 32.13	11.79	22 47 7.31	3 44.77	7 43 17.4	22 48.7	65.44	16 10.25
2	Sa	12 20.34	12.26	22 50 52.08	3 44.28	7 20 28.7	22 55.0	65.37	16 10.00
3	St	12 8.08	12.72	22 54 36.36	3 43.83	6 57 33.7	23 1.0	65.30	16 9.75
4	Mo	11 55.36	13.17	22 58 20.19	3 43.39	6 34 32.7	23 6.5	65.22	16 9.50
5	Di	−11 42.19	13.60	23 2 3.58	3 42.95	−6 11 26.2	23 11.7	65.16	16 9.25
6	Mi	11 28.59	14.01	23 5 46.53	3 42.54	5 48 14.5	23 16.5	65.09	16 8.99
7	Do	11 14.58	14.41	23 9 29.07	3 42.15	5 24 58.0	23 20.8	65.03	16 8.74
8	Fr	11 0.17	14.78	23 13 11.22	3 41.77	5 1 37.2	23 24.7	64.98	16 8.48
9	Sa	10 45.39	15.15	23 16 52.99	3 41.40	4 38 12.5	23 28.3	64.92	16 8.22
10	St	10 30.24	15.49	23 20 34.39	3 41.06	4 14 44.2	23 31.5	64.87	16 7.97
11	Mo	−10 14.75	15.82	23 24 15.45	3 40.74	−3 51 12.7	23 34.3	64.82	16 7.71
12	Di	9 58.93	16.12	23 27 56.19	3 40.42	3 27 38.4	23 36.6	64.77	16 7.45
13	Mi	9 42.81	16.43	23 31 36.61	3 40.13	3 4 1.8	23 38.6	64.73	16 7.19
14	Do	9 26.38	16.70	23 35 16.74	3 39.85	2 40 23.2	23 40.3	64.69	16 6.93
15	Fr	9 9.68	16.95	23 38 56.59	3 39.60	2 16 42.9	23 41.4	64.65	16 6.68
16	Sa	8 52.73	17.20	23 42 36.19	3 39.36	1 53 1.5	23 42.3	64.62	16 6.41
17	St	−8 35.53	17.41	23 46 15.55	3 39.14	−1 29 19.2	23 42.8	64.59	16 6.15
18	Mo	8 18.12	17.61	23 49 54.69	3 38.93	1 5 36.4	23 42.9	64.56	16 5.89
19	Di	8 0.51	17.80	23 53 33.62	3 38.76	0 41 53.5	23 42.7	64.53	16 5.62
20	Mi	7 42.71	17.94	23 57 12.38	3 38.60	−0 18 10.8	23 42.0	64.51	16 5.35
21	Do	7 24.77	18.08	0 0 50.98	3 38.48	+0 5 31.2	23 41.2	64.49	16 5.09
22	Fr	−7 6.69		0 4 29.46		+0 29 12.4		64.48	16 4.82

Tag	0h Welt-Zeit									Aufgang	Untergang
	Julian Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Mittleres Äquinoktium 1940.0 Breite	log R		in +50° Breite, 0h Länge	in +50° Breite, 0h Länge
1940	2429	h m s	in 0.s001		° ′ ″	′ ″	in 0.″01			h m	h m
Febr. 10	669.5	9 15 44.116	+512	+ 6	320 6 20.4	60 44.4	+53	9.994 2068	780	7 22	17 8
11	670.5	9 19 40.671	511	+ 2	321 7 4.8	60 42.9	+43	9.994 2848	791	7 20	17 10
12	671.5	9 23 37.225	509	− 3	322 7 47.7	60 41.4	+32	9.994 3639	804	7 18	17 11
13	672.5	9 27 33.778	508	− 8	323 8 29.1	60 39.8	+20	9.994 4443	817	7 17	17 13
14	673.5	9 31 30.332	506	−12	324 9 8.9	60 38.1	+ 7	9.994 5260	832	7 15	17 14
15	674.5	9 35 26.886	504	−14	325 9 47.0	60 36.4	− 5	9.994 6092	845	7 13	17 16
16	675.5	9 39 23.439	+503	−14	326 10 23.4	60 34.7	−17	9.994 6937	860	7 11	17 18
17	676.5	9 43 19.993	501	−12	327 10 58.1	60 32.9	−27	9.994 7797	876	7 9	17 20
18	677.5	9 47 16.546	499	− 8	328 11 31.0	60 31.0	−35	9.994 8673	894	7 8	17 21
19	678.5	9 51 13.099	497	− 3	329 12 2.0	60 29.2	−40	9.994 9567	913	7 6	17 23
20	679.5	9 55 9.653	494	+ 3	330 12 31.2	60 27.5	−43	9.995 0480	930	7 4	17 25
21	680.5	9 59 6.206	492	+ 7	331 12 58.7	60 25.6	−42	9.995 1410	951	7 2	17 27
22	681.5	10 3 2.759	+490	+10	332 13 24.3	60 24.0	−39	9.995 2361	972	7 0	17 28
23	682.5	10 6 59.311	487	+ 9	333 13 48.3	60 22.2	−33	9.995 3333	993	6 58	17 30
24	683.5	10 10 55.864	485	+ 6	334 14 10.5	60 20.6	−23	9.995 4326	1012	6 56	17 31
25	684.5	10 14 52.417	482	+ 2	335 14 31.1	60 19.1	−11	9.995 5338	1032	6 54	17 33
26	685.5	10 18 48.970	480	− 3	336 14 50.2	60 17.6	+ 3	9.995 6370	1050	6 52	17 35
27	686.5	10 22 45.522	477	− 6	337 15 7.8	60 16.1	+17	9.995 7420	1067	6 50	17 37
28	687.5	10 26 42.075	+474	− 7	338 15 23.9	60 14.6	+30	9.995 8487	1082	6 48	17 38
29	688.5	10 30 38.628	471	− 6	339 15 38.5	60 13.2	+42	9.995 9569	1096	6 46	17 40
März 1	689.5	10 34 35.180	468	− 3	340 15 51.7	60 11.7	+53	9.996 0665	1106	6 44	17 42
2	690.5	10 38 31.732	465	+ 2	341 16 3.4	60 10.1	+62	9.996 1771	1116	6 42	17 44
3	691.5	10 42 28.285	462	+ 6	342 16 13.5	60 8.7	+67	9.996 2887	1126	6 40	17 45
4	692.5	10 46 24.837	459	+10	343 16 22.2	60 7.0	+70	9.996 4013	1133	6 38	17 47
5	693.5	10 50 21.389	+456	+12	344 16 29.2	60 5.3	+69	9.996 5146	1138	6 36	17 48
6	694.5	10 54 17.941	453	+12	345 16 34.5	60 3.6	+66	9.996 6284	1143	6 34	17 50
7	695.5	10 58 14.493	449	+11	346 16 38.1	60 1.9	+61	9.996 7427	1147	6 32	17 52
8	696.5	11 2 11.045	446	+ 8	347 16 40.0	60 0.0	+53	9.996 8574	1151	6 30	17 53
9	697.5	11 6 7.597	443	+ 4	348 16 40.0	59 58.1	+43	9.996 9725	1155	6 27	17 55
10	698.5	11 10 4.149	439	− 1	349 16 38.1	59 56.1	+32	9.997 0880	1157	6 25	17 56
11	699.5	11 14 0.701	+436	− 6	350 16 34.2	59 54.1	+20	9.997 2037	1161	6 23	17 58
12	700.5	11 17 57.253	432	−10	351 16 28.3	59 52.0	+ 6	9.997 3198	1163	6 21	18 0
13	701.5	11 21 53.805	429	−13	352 16 20.3	59 49.9	− 7	9.997 4361	1166	6 19	18 1
14	702.5	11 25 50.357	425	−14	353 16 10.2	59 47.7	−19	9.997 5527	1169	6 16	18 3
15	703.5	11 29 46.909	422	−13	354 15 57.9	59 45.5	−30	9.997 6696	1174	6 14	18 4
16	704.5	11 33 43.460	418	−10	355 15 43.4	59 43.2	−39	9.997 7870	1177	6 12	18 6
17	705.5	11 37 40.012	+415	− 5	356 15 26.6	59 40.9	−45	9.997 9047	1183	6 10	18 8
18	706.5	11 41 36.564	411	0	357 15 7.5	59 38.6	−48	9.998 0230	1190	6 8	18 9
19	707.5	11 45 33.116	407	+ 5	358 14 46.1	59 36.3	−49	9.998 1420	1197	6 6	18 11
20	708.5	11 49 29.667	404	+ 8	359 14 22.4	59 34.1	−46	9.998 2617	1206	6 4	18 12
21	709.5	11 53 26.219	400	+ 8	0 13 56.5	59 31.8	−39	9.998 3823	1216	6 2	18 14
22	710.5	11 57 22.771	+396	+ 6	1 13 28.3		−30	9.998 5039		6 0	18 16

Sonne 1940

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 22	Fr	−7 6.69	18.19	0 4 29.46	3 38.36	+ 0 29 12.4	23 39.8	64.48	16 4.82
23	Sa	6 48.50	18.27	0 8 7.82	3 38.28	0 52 52.2	23 38.2	64.47	16 4.54
24	St	6 30.23	18.33	0 11 46.10	3 38.23	1 16 30.4	23 36.2	64.46	16 4.27
25	Mo	6 11.90	18.36	0 15 24.33	3 38.19	1 40 6.6	23 34.0	64.45	16 4.00
26	Di	5 53.54	18.36	0 19 2.52	3 38.19	2 3 40.6	23 31.4	64.44	16 3.72
27	Mi	5 35.18	18.35	0 22 40.71	3 38.20	2 27 12.0	23 28.3	64.44	16 3.43
28	Do	−5 16.83	18.31	0 26 18.91	3 38.24	+ 2 50 40.3	23 25.1	64.44	16 3.15
29	Fr	4 58.52	18.25	0 29 57.15	3 38.30	3 14 5.4	23 21.5	64.44	16 2.87
30	Sa	4 40.27	18.17	0 33 35.45	3 38.38	3 37 26.9	23 17.5	64.45	16 2.59
31	St	4 22.10	18.07	0 37 13.83	3 38.48	4 0 44.4	23 13.1	64.46	16 2.31
April 1	Mo	4 4.03	17.96	0 40 52.31	3 38.60	4 23 57.5	23 8.4	64.48	16 2.02
2	Di	3 46.07	17.82	0 44 30.91	3 38.74	4 47 5.9	23 3.3	64.50	16 1.74
3	Mi	−3 28.25	17.66	0 48 9.65	3 38.89	+ 5 10 9.2	22 57.9	64.52	16 1.46
4	Do	3 10.59	17.50	0 51 48.54	3 39.05	5 33 7.1	22 52.1	64.54	16 1.18
5	Fr	2 53.09	17.31	0 55 27.59	3 39.24	5 55 59.2	22 45.9	64.56	16 0.90
6	Sa	2 35.78	17.11	0 59 6.83	3 39.44	6 18 45.1	22 39.5	64.59	16 0.62
7	St	2 18.67	16.89	1 2 46.27	3 39.66	6 41 24.6	22 32.6	64.62	16 0.34
8	Mo	2 1.78	16.67	1 6 25.93	3 39.89	7 3 57.2	22 25.5	64.65	16 0.06
9	Di	−1 45.11	16.42	1 10 5.82	3 40.13	+ 7 26 22.7	22 17.8	64.69	15 59.79
10	Mi	1 28.69	16.16	1 13 45.95	3 40.39	7 48 40.5	22 10.0	64.73	15 59.52
11	Do	1 12.53	15.89	1 17 26.34	3 40.66	8 10 50.5	22 1.7	64.77	15 59.25
12	Fr	0 56.64	15.60	1 21 7.00	3 40.95	8 32 52.2	21 53.0	64.81	15 58.98
13	Sa	0 41.04	15.31	1 24 47.95	3 41.25	8 54 45.2	21 44.1	64.85	15 58.72
14	St	0 25.73	14.99	1 28 29.20	3 41.56	9 16 29.3	21 34.8	64.90	15 58.46
15	Mo	−0 10.74	14.67	1 32 10.76	3 41.89	+ 9 38 4.1	21 25.2	64.95	15 58.19
16	Di	+0 3.93	14.32	1 35 52.65	3 42.23	9 59 29.3	21 15.1	65.00	15 57.92
17	Mi	0 18.25	13.97	1 39 34.88	3 42.58	10 20 44.4	21 4.8	65.05	15 57.66
18	Do	0 32.22	13.59	1 43 17.46	3 42.96	10 41 49.2	20 54.2	65.11	15 57.41
19	Fr	0 45.81	13.20	1 47 0.42	3 43.35	11 2 43.4	20 43.3	65.17	15 57.15
20	Sa	0 59.01	12.80	1 50 43.77	3 43.76	11 23 26.7	20 31.9	65.23	15 56.89
21	St	+1 11.81	12.37	1 54 27.53	3 44.18	+11 43 58.6	20 20.4	65.29	15 56.63
22	Mo	1 24.18	11.93	1 58 11.71	3 44.62	12 4 19.0	20 8.4	65.36	15 56.37
23	Di	1 36.11	11.47	2 1 56.33	3 45.09	12 24 27.4	19 56.3	65.42	15 56.12
24	Mi	1 47.58	10.99	2 5 41.42	3 45.56	12 44 23.7	19 43.7	65.49	15 55.86
25	Do	1 58.57	10.50	2 9 26.98	3 46.06	13 4 7.4	19 30.9	65.56	15 55.60
26	Fr	2 9.07	9.99	2 13 13.04	3 46.56	13 23 38.3	19 17.8	65.63	15 55.35
27	Sa	+2 19.06	9.48	2 16 59.60	3 47.07	+13 42 56.1	19 4.2	65.70	15 55.09
28	St	2 28.54	8.94	2 20 46.67	3 47.61	14 2 0.3	18 50.5	65.78	15 54.84
29	Mo	2 37.48	8.42	2 24 34.28	3 48.14	14 20 50.8	18 36.4	65.85	15 54.59
30	Di	2 45.90	7.87	2 28 22.42	3 48.69	14 39 27.2	18 21.9	65.93	15 54.34
Mai 1	Mi	2 53.77	7.32	2 32 11.11	3 49.23	14 57 49.1	18 7.2	66.00	15 54.09
2	Do	+3 1.09		2 36 0.34		+15 15 56.3		66.08	15 53.85

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1940	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
März 22	710.5	11 57 22.771	+396	+ 6	1 13 28.3	59 29.6	−30	9.998 5039	1225	6 0	18 16
23	711.5	12 1 19.322	393	+ 2	2 12 57.9	59 27.6	−20	9.998 6264	1236	5 58	18 17
24	712.5	12 5 15.874	389	− 2	3 12 25.5	59 25.5	− 7	9.998 7500	1245	5 55	18 19
25	713.5	12 9 12.426	386	− 6	4 11 51.0	59 23.6	+ 7	9.998 8745	1255	5 53	18 20
26	714.5	12 13 8.978	382	− 8	5 11 14.6	59 21.7	+22	9.999 0000	1262	5 51	18 22
27	715.5	12 17 5.529	378	− 8	6 10 36.3	59 19.9	+35	9.999 1262	1270	5 49	18 24
28	716.5	12 21 2.081	+375	− 5	7 9 56.2	59 18.1	+46	9.999 2532	1274	5 47	18 25
29	717.5	12 24 58.633	371	0	8 9 14.3	59 16.3	+54	9.999 3806	1278	5 44	18 27
30	718.5	12 28 55.185	368	+ 5	9 8 30.6	59 14.6	+61	9.999 5084	1278	5 42	18 28
31	719.5	12 32 51.737	364	+10	10 7 45.2	59 12.8	+65	9.999 6362	1279	5 40	18 30
April 1	720.5	12 36 48.289	361	+12	11 6 58.0	59 11.0	+66	9.999 7641	1278	5 38	18 31
2	721.5	12 40 44.841	357	+14	12 6 9.0	59 9.2	+63	9.999 8919	1275	5 36	18 33
3	722.5	12 44 41.393	+354	+12	13 5 18.2	59 7.4	+58	0.000 0194	1271	5 33	18 34
4	723.5	12 48 37.945	351	+ 9	14 4 25.6	59 5.5	+50	0.000 1465	1265	5 31	18 36
5	724.5	12 52 34.497	347	+ 5	15 3 31.1	59 3.6	+41	0.000 2730	1260	5 29	18 37
6	725.5	12 56 31.049	344	+ 1	16 2 34.7	59 1.7	+30	0.000 3990	1252	5 27	18 39
7	726.5	13 0 27.601	341	− 4	17 1 36.4	58 59.7	+17	0.000 5242	1246	5 25	18 40
8	727.5	13 4 24.153	338	− 8	18 0 36.1	58 57.6	+ 4	0.000 6488	1237	5 22	18 42
9	728.5	13 8 20.705	+335	−11	18 59 33.7	58 55.6	− 9	0.000 7725	1229	5 20	18 43
10	729.5	13 12 17.258	332	−13	19 58 29.3	58 53.5	−22	0.000 8954	1221	5 18	18 45
11	730.5	13 16 13.810	329	−12	20 57 22.8	58 51.3	−35	0.001 0175	1212	5 16	18 47
12	731.5	13 20 10.363	326	−10	21 56 14.1	58 49.0	−44	0.001 1387	1204	5 14	18 48
13	732.5	13 24 6.915	323	− 6	22 55 3.1	58 46.9	−52	0.001 2591	1197	5 12	18 50
14	733.5	13 28 3.468	320	− 1	23 53 50.0	58 44.6	−56	0.001 3788	1191	5 10	18 51
15	734.5	13 32 0.020	+317	+ 3	24 52 34.6	58 42.3	−57	0.001 4979	1184	5 8	18 53
16	735.5	13 35 56.573	315	+ 7	25 51 16.9	58 40.0	−55	0.001 6163	1179	5 6	18 55
17	736.5	13 39 53.126	312	+ 8	26 49 56.9	58 37.8	−50	0.001 7342	1176	5 4	18 56
18	737.5	13 43 49.679	310	+ 6	27 48 34.7	58 35.6	−42	0.001 8518	1174	5 2	18 58
19	738.5	13 47 46.231	307	+ 3	28 47 10.3	58 33.4	−31	0.001 9692	1172	5 0	18 59
20	739.5	13 51 42.784	305	− 2	29 45 43.7	58 31.4	−18	0.002 0864	1172	4 58	19 1
21	740.5	13 55 39.338	+302	− 6	30 44 15.1	58 29.3	− 4	0.002 2036	1171	4 56	19 3
22	741.5	13 59 35.891	300	− 9	31 42 44.4	58 27.4	+ 9	0.002 3207	1170	4 54	19 4
23	742.5	14 3 32.444	298	− 9	32 41 11.8	58 25.6	+23	0.002 4377	1168	4 52	19 6
24	743.5	14 7 28.997	296	− 7	33 39 37.4	58 23.9	+35	0.002 5545	1166	4 50	19 7
25	744.5	14 11 25.551	294	− 3	34 38 1.3	58 22.2	+44	0.002 6711	1164	4 48	19 9
26	745.5	14 15 22.104	292	+ 3	35 36 23.5	58 20.6	+52	0.002 7875	1159	4 46	19 10
27	746.5	14 19 18.658	+290	+ 8	36 34 44.1	58 19.0	+57	0.002 9034	1152	4 44	19 12
28	747.5	14 23 15.211	289	+12	37 33 3.1	58 17.6	+59	0.003 0186	1144	4 43	19 13
29	748.5	14 27 11.765	287	+14	38 31 20.7	58 15.9	+56	0.003 1330	1135	4 41	19 15
30	749.5	14 31 8.319	285	+13	39 29 36.6	58 14.5	+51	0.003 2465	1124	4 39	19 16
Mai 1	750.5	14 35 4.873	284	+11	40 27 51.1	58 13.0	+44	0.003 3589	1112	4 37	19 18
2	751.5	14 39 1.427	+283	+ 7	41 26 4.1		+35	0.003 4701		4 35	19 19

0h Welt-Zeit

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit)		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Mai 2	Do	+3 1.09	6.76	2 36 0.34	3 49.79	+15 15 56.3	17 52.1	66.08	15 53.85
3	Fr	3 7.85	6.19	2 39 50.13	3 50.36	15 33 48.4	17 36.7	66.16	15 53.60
4	Sa	3 14.04	5.64	2 43 40.49	3 50.92	15 51 25.1	17 20.9	66.24	15 53.37
5	St	3 19.68	5.07	2 47 31.41	3 51.49	16 8 46.0	17 4.9	66.32	15 53.13
6	Mo	3 24.75	4.50	2 51 22.90	3 52.05	16 25 50.9	16 48.6	66.40	15 52.90
7	Di	3 29.25	3.93	2 55 14.95	3 52.62	16 42 39.5	16 31.9	66.49	15 52.67
8	Mi	+3 33.18	3.37	2 59 7.57	3 53.19	+16 59 11.4	16 14.9	66.57	15 52.46
9	Do	3 36.55	2.79	3 3 0.76	3 53.76	17 15 26.3	15 57.7	66.65	15 52.24
10	Fr	3 39.34	2.24	3 6 54.52	3 54.32	17 31 24.0	15 40.0	66.73	15 52.02
11	Sa	3 41.58	1.67	3 10 48.84	3 54.88	17 47 4.0	15 22.2	66.81	15 51.81
12	St	3 43.25	1.12	3 14 43.72	3 55.44	18 2 26.2	15 3.9	66.89	15 51.60
13	Mo	3 44.37	0.56	3 18 39.16	3 55.99	18 17 30.1	14 45.4	66.98	15 51.39
14	Di	+3 44.93	0.01	3 22 35.15	3 56.54	+18 32 15.5	14 26.6	67.06	15 51.19
15	Mi	3 44.94	0.53	3 26 31.69	3 57.09	18 46 42.1	14 7.6	67.14	15 51.00
16	Do	3 44.41	1.08	3 30 28.78	3 57.63	19 0 49.7	13 48.3	67.22	15 50.80
17	Fr	3 43.33	1.62	3 34 26.41	3 58.18	19 14 38.0	13 28.7	67.30	15 50.61
18	Sa	3 41.71	2.16	3 38 24.59	3 58.71	19 28 6.7	13 8.8	67.38	15 50.42
19	St	3 39.55	2.69	3 42 23.30	3 59.26	19 41 15.5	12 48.7	67.46	15 50.23
20	Mo	+3 36.86	3.24	3 46 22.56	3 59.79	+19 54 4.2	12 28.3	67.54	15 50.06
21	Di	3 33.62	3.77	3 50 22.35	4 0.32	20 6 32.5	12 7.7	67.61	15 49.87
22	Mi	3 29.85	4.30	3 54 22.67	4 0.86	20 18 40.2	11 46.9	67.69	15 49.69
23	Do	3 25.55	4.82	3 58 23.53	4 1.38	20 30 27.1	11 25.8	67.76	15 49.51
24	Fr	3 20.73	5.35	4 2 24.91	4 1.90	20 41 52.9	11 4.5	67.83	15 49.34
25	Sa	3 15.38	5.86	4 6 26.81	4 2.42	20 52 57.4	10 43.0	67.90	15 49.16
26	St	+3 9.52	6.37	4 10 29.23	4 2.93	+21 3 40.4	10 21.2	67.97	15 48.99
27	Mo	3 3.15	6.86	4 14 32.16	4 3.42	21 14 1.6	9 59.2	68.04	15 48.82
28	Di	2 56.29	7.35	4 18 35.58	4 3.90	21 24 0.8	9 37.1	68.11	15 48.66
29	Mi	2 48.94	7.81	4 22 39.48	4 4.37	21 33 37.9	9 14.8	68.18	15 48.51
30	Do	2 41.13	8.27	4 26 43.85	4 4.82	21 42 52.7	8 52.1	68.24	15 48.35
31	Fr	2 32.86	8.71	4 30 48.67	4 5.26	21 51 44.8	8 29.4	68.30	15 48.19
Juni 1	Sa	+2 24.15	9.13	4 34 53.93	4 5.69	+22 0 14.2	8 6.5	68.36	15 48.04
2	St	2 15.02	9.53	4 38 59.62	4 6.09	22 8 20.7	7 43.2	68.41	15 47.90
3	Mo	2 5.49	9.91	4 43 5.71	4 6.47	22 16 3.9	7 19.9	68.46	15 47.76
4	Di	1 55.58	10.28	4 47 12.18	4 6.83	22 23 23.8	6 56.6	68.51	15 47.62
5	Mi	1 45.30	10.62	4 51 19.01	4 7.17	22 30 20.4	6 33.0	68.56	15 47.49
6	Do	1 34.68	10.93	4 55 26.18	4 7.49	22 36 53.4	6 9.1	68.61	15 47.37
7	Fr	+1 23.75	11.23	4 59 33.67	4 7.79	+22 43 2.5	5 45.2	68.66	15 47.25
8	Sa	1 12.52	11.49	5 3 41.46	4 8.05	22 48 47.7	5 21.2	68.70	15 47.14
9	St	1 1.03	11.74	5 7 49.51	4 8.30	22 54 8.9	4 57.1	68.73	15 47.03
10	Mo	0 49.29	11.96	5 11 57.81	4 8.51	22 59 6.0	4 32.8	68.76	15 46.93
11	Di	0 37.33	12.15	5 16 6.32	4 8.71	23 3 38.8	4 8.5	68.79	15 46.83
12	Mi	+0 25.18		5 20 15.03		+23 7 47.3		68.82	15 46.73

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang	Untergang
	0h Welt-Zeit									in {+50° Breite, 0h Länge	
1940	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Mai 2	751.5	14 39 1.427	+283	+ 7	41 26 4.1	58 11.4	+35	0.003 4701	1100	4 35	19 19
3	752.5	14 42 57.981	281	+ 3	42 24 15.5	58 9.9	+25	0.003 5801	1084	4 34	19 21
4	753.5	14 46 54.535	280	− 2	43 22 25.4	58 8.4	+13	0.003 6885	1069	4 32	19 22
5	754.5	14 50 51.089	279	− 6	44 20 33.8	58 6.8	− 1	0.003 7954	1054	4 30	19 24
6	755.5	14 54 47.643	278	−10	45 18 40.6	58 5.3	−15	0.003 9008	1036	4 28	19 25
7	756.5	14 58 44.198	277	−12	46 16 45.9	58 3.6	−27	0.004 0044	1019	4 27	19 27
8	757.5	15 2 40.752	+276	−12	47 14 49.5	58 1.9	−39	0.004 1063	1001	4 25	19 28
9	758.5	15 6 37.307	275	−10	48 12 51.4	58 0.3	−49	0.004 2064	982	4 24	19 30
10	759.5	15 10 33.862	275	− 6	49 10 51.7	57 58.6	−57	0.004 3046	965	4 22	19 31
11	760.5	15 14 30.416	274	− 2	50 8 50.3	57 56.8	−62	0.004 4011	947	4 20	19 33
12	761.5	15 18 26.971	273	+ 3	51 6 47.1	57 55.0	−64	0.004 4958	931	4 19	19 34
13	762.5	15 22 23.526	273	+ 6	52 4 42.1	57 53.2	−64	0.004 5889	914	4 17	19 36
14	763.5	15 26 20.081	+273	+ 8	53 2 35.3	57 51.4	−60	0.004 6803	899	4 16	19 37
15	764.5	15 30 16.636	273	+ 7	54 0 26.7	57 49.7	−53	0.004 7702	885	4 14	19 39
16	765.5	15 34 13.192	272	+ 4	54 58 16.4	57 47.9	−43	0.004 8587	872	4 13	19 40
17	766.5	15 38 9.747	272	0	55 56 4.3	57 46.2	−32	0.004 9459	861	4 12	19 41
18	767.5	15 42 6.302	272	− 5	56 53 50.5	57 44.5	−18	0.005 0320	851	4 10	19 43
19	768.5	15 46 2.858	272	− 9	57 51 35.0	57 43.0	− 4	0.005 1171	841	4 9	19 44
20	769.5	15 49 59.413	+272	−10	58 49 18.0	57 41.5	+10	0.005 2012	832	4 8	19 45
21	770.5	15 53 55.969	273	− 9	59 46 59.5	57 40.2	+22	0.005 2844	823	4 7	19 46
22	771.5	15 57 52.524	273	− 5	60 44 39.7	57 38.8	+32	0.005 3667	814	4 6	19 48
23	772.5	16 1 49.080	273	0	61 42 18.5	57 37.7	+39	0.005 4481	804	4 4	19 49
24	773.5	16 5 45.636	274	+ 5	62 39 56.2	57 36.6	+44	0.005 5285	792	4 3	19 51
25	774.5	16 9 42.192	274	+10	63 37 32.8	57 35.6	+46	0.005 6077	781	4 2	19 52
26	775.5	16 13 38.747	+275	+13	64 35 8.4	57 34.7	+45	0.005 6858	767	4 1	19 53
27	776.5	16 17 35.303	275	+13	65 32 43.1	57 33.7	+42	0.005 7625	752	4 0	19 54
28	777.5	16 21 31.860	276	+12	66 30 16.8	57 32.8	+36	0.005 8377	736	4 0	19 56
29	778.5	16 25 28.416	277	+ 9	67 27 49.6	57 31.9	+27	0.005 9113	720	3 59	19 57
30	779.5	16 29 24.972	277	+ 4	68 25 21.5	57 31.2	+17	0.005 9833	701	3 58	19 58
31	780.5	16 33 21.528	278	− 1	69 22 52.7	57 30.3	+ 5	0.006 0534	681	3 57	19 59
Juni 1	781.5	16 37 18.084	+279	− 5	70 20 23.0	57 29.5	− 7	0.006 1215	661	3 56	20 0
2	782.5	16 41 14.641	280	− 9	71 17 52.5	57 28.7	−19	0.006 1876	640	3 56	20 1
3	783.5	16 45 11.197	281	−12	72 15 21.2	57 27.8	−32	0.006 2516	617	3 55	20 2
4	784.5	16 49 7.753	282	−12	73 12 49.0	57 27.1	−45	0.006 3133	594	3 54	20 3
5	785.5	16 53 4.310	283	−11	74 10 16.1	57 26.2	−55	0.006 3727	570	3 53	20 4
6	786.5	16 57 0.866	285	− 7	75 7 42.3	57 25.3	−64	0.006 4297	545	3 53	20 5
7	787.5	17 0 57.423	+286	− 3	76 5 7.6	57 24.4	−70	0.006 4842	521	3 52	20 5
8	788.5	17 4 53.980	287	+ 2	77 2 32.0	57 23.4	−73	0.006 5363	497	3 52	20 6
9	789.5	17 8 50.536	288	+ 6	77 59 55.4	57 22.5	−73	0.006 5860	473	3 51	20 7
10	790.5	17 12 47.093	290	+ 9	78 57 17.9	57 21.4	−71	0.006 6333	449	3 51	20 8
11	791.5	17 16 43.649	291	+ 9	79 54 39.3	57 20.5	−64	0.006 6782	428	3 51	20 8
12	792.5	17 20 40.206	+292	+ 6	80 51 59.8		−55	0.006 7210		3 50	20 9

Tag		Wochentag	0h Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit)	Diff.	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1940			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni	12	Mi	+0 25.18	12.32	5 20 15.03	4 8.88	+23 7 47.3	3 44.1	68.82	15 46.73
	13	Do	0 12.86	12.47	5 24 23.91	4 9.03	23 11 31.4	3 19.5	68.85	15 46.64
	14	Fr	+0 0.39	12.60	5 28 32.94	4 9.15	23 14 50.9	2 54.9	68.88	15 46.56
	15	Sa	−0 12.21	12.70	5 32 42.09	4 9.25	23 17 45.8	2 30.3	68.89	15 46.48
	16	St	0 24.91	12.78	5 36 51.34	4 9.34	23 20 16.1	2 5.6	68.91	15 46.40
	17	Mo	0 37.69	12.85	5 41 0.68	4 9.41	23 22 21.7	1 40.9	68.92	15 46.33
	18	Di	−0 50.54	12.89	5 45 10.09	4 9.45	+23 24 2.6	1 16.1	68.93	15 46.26
	19	Mi	1 3.43	12.92	5 49 19.54	4 9.47	23 25 18.7	0 51.2	68.94	15 46.19
	20	Do	1 16.35	12.93	5 53 29.01	4 9.48	23 26 9.9	0 26.5	68.94	15 46.13
	21	Fr	1 29.28	12.91	5 57 38.49	4 9.48	23 26 36.4	0 1.7	68.94	15 46.07
	22	Sa	1 42.19	12.89	6 1 47.97	4 9.44	23 26 38.1	0 23.2	68.94	15 46.01
	23	St	1 55.08	12.83	6 5 57.41	4 9.39	23 26 14.9	0 47.9	68.93	15 45.96
	24	Mo	−2 7.91	12.76	6 10 6.80	4 9.32	+23 25 27.0	1 12.7	68.92	15 45.91
	25	Di	2 20.67	12.67	6 14 16.12	4 9.22	23 24 14.3	1 37.4	68.91	15 45.86
	26	Mi	2 33.34	12.55	6 18 25.34	4 9.11	23 22 36.9	2 2.1	68.89	15 45.81
	27	Do	2 45.89	12.42	6 22 34.45	4 8.97	23 20 34.8	2 26.7	68.87	15 45.77
	28	Fr	2 58.31	12.25	6 26 43.42	4 8.81	23 18 8.1	2 51.3	68.85	15 45.74
	29	Sa	3 10.56	12.07	6 30 52.23	4 8.63	23 15 16.8	3 15.7	68.82	15 45.71
	30	St	−3 22.63	11.86	6 35 0.86	4 8.41	+23 12 1.1	3 40.2	68.80	15 45.68
Juli	1	Mo	3 34.49	11.63	6 39 9.27	4 8.19	23 8 20.9	4 4.4	68.76	15 45.66
	2	Di	3 46.12	11.37	6 43 17.46	4 7.93	23 4 16.5	4 28.7	68.72	15 45.64
	3	Mi	3 57.49	11.10	6 47 25.39	4 7.66	22 59 47.8	4 52.7	68.68	15 45.63
	4	Do	4 8.59	10.80	6 51 33.05	4 7.35	22 54 55.1	5 16.6	68.64	15 45.63
	5	Fr	4 19.39	10.47	6 55 40.40	4 7.03	22 49 38.5	5 40.5	68.60	15 45.63
	6	Sa	−4 29.86	10.12	6 59 47.43	4 6.67	+22 43 58.0	6 4.1	68.56	15 45.63
	7	St	4 39.98	9.74	7 3 54.10	4 6.30	22 37 53.9	6 27.6	68.50	15 45.64
	8	Mo	4 49.72	9.34	7 8 0.40	4 5.90	22 31 26.3	6 51.0	68.45	15 45.66
	9	Di	4 59.06	8.93	7 12 6.30	4 5.48	22 24 35.3	7 14.1	68.39	15 45.69
	10	Mi	5 7.99	8.48	7 16 11.78	4 5.04	22 17 21.2	7 37.2	68.33	15 45.72
	11	Do	5 16.47	8.03	7 20 16.82	4 4.58	22 9 44.0	7 59.9	68.27	15 45.75
	12	Fr	−5 24.50	7.55	7 24 21.40	4 4.11	+22 1 44.1	8 22.6	68.21	15 45.79
	13	Sa	5 32.05	7.06	7 28 25.51	4 3.62	21 53 21.5	8 45.1	68.15	15 45.83
	14	St	5 39.11	6.56	7 32 29.13	4 3.12	21 44 36.4	9 7.3	68.09	15 45.88
	15	Mo	5 45.67	6.04	7 36 32.25	4 2.60	21 35 29.1	9 29.3	68.02	15 45.93
	16	Di	5 51.71	5.53	7 40 34.85	4 2.08	21 25 59.8	9 51.2	67.94	15 45.99
	17	Mi	5 57.24	4.99	7 44 36.93	4 1.54	21 16 8.6	10 12.9	67.87	15 46.05
	18	Do	−6 2.23	4.46	7 48 38.47	4 1.01	+21 5 55.7	10 34.2	67.80	15 46.11
	19	Fr	6 6.69	3.91	7 52 39.48	4 0.47	20 55 21.5	10 55.5	67.72	15 46.18
	20	Sa	6 10.60	3.36	7 56 39.95	3 59.92	20 44 26.0	11 16.4	67.64	15 46.24
	21	St	6 13.96	2.80	8 0 39.87	3 59.36	20 33 9.6	11 37.2	67.56	15 46.31
	22	Mo	6 16.76	2.25	8 4 39.23	3 58.80	20 21 32.4	11 57.7	67.48	15 46.38
	23	Di	−6 19.01		8 8 38.03		+20 9 34.7		67.40	15 46.46

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang (in +50° Breite, 0ʰ Länge)	Untergang (in +50° Breite, 0ʰ Länge)
1940	2429	h m s	in 0.001 (s)		° ′ ″	′ ″	in 0.01 (″)			h m	h m
Juni 12	792.5	17 20 40.206	+292	+ 6	80 51 59.8	57 19.4	−55	0.006 7210	408	3 50	20 9
13	793.5	17 24 36.763	294	+ 2	81 49 19.2	57 18.4	−44	0.006 7618	387	3 50	20 9
14	794.5	17 28 33.320	295	− 3	82 46 37.6	57 17.5	−32	0.006 8005	369	3 50	20 10
15	795.5	17 32 29.877	296	− 7	83 43 55.1	57 16.6	−19	0.006 8374	352	3 50	20 10
16	796.5	17 36 26.433	298	− 9	84 41 11.7	57 15.8	− 7	0.006 8726	337	3 50	20 11
17	797.5	17 40 22.990	299	− 9	85 38 27.5	57 15.1	+ 6	0.006 9063	323	3 50	20 11
18	798.5	17 44 19.547	+301	− 7	86 35 42.6	57 14.4	+17	0.006 9386	308	3 50	20 12
19	799.5	17 48 16.104	302	− 3	87 32 57.0	57 13.8	+26	0.006 9694	293	3 50	20 12
20	800.5	17 52 12.661	304	+ 3	88 30 10.8	57 13.3	+31	0.006 9987	280	3 50	20 12
21	801.5	17 56 9.217	305	+ 7	89 27 24.1	57 13.1	+34	0.007 0267	266	3 50	20 12
22	802.5	18 0 5.774	307	+11	90 24 37.2	57 12.7	+34	0.007 0533	252	3 51	20 13
23	803.5	18 4 2.331	308	+13	91 21 49.9	57 12.6	+31	0.007 0785	236	3 51	20 13
24	804.5	18 7 58.888	+310	+12	92 19 2.5	57 12.4	+26	0.007 1021	218	3 51	20 13
25	805.5	18 11 55.445	311	+10	93 16 14.9	57 12.4	+17	0.007 1239	201	3 51	20 13
26	806.5	18 15 52.002	313	+ 6	94 13 27.3	57 12.3	+ 6	0.007 1440	183	3 52	20 13
27	807.5	18 19 48.559	314	+ 1	95 10 39.6	57 12.4	− 5	0.007 1623	163	3 52	20 13
28	808.5	18 23 45.115	316	− 4	96 7 52.0	57 12.4	−17	0.007 1786	142	3 53	20 13
29	809.5	18 27 41.672	317	− 8	97 5 4.4	57 12.5	−29	0.007 1928	120	3 53	20 13
30	810.5	18 31 38.229	+318	−12	98 2 16.9	57 12.6	−42	0.007 2048	98	3 54	20 13
Juli 1	811.5	18 35 34.786	320	−13	98 59 29.5	57 12.7	−54	0.007 2146	74	3 55	20 12
2	812.5	18 39 31.342	321	−12	99 56 42.2	57 12.9	−64	0.007 2220	49	3 55	20 12
3	813.5	18 43 27.899	322	− 9	100 53 55.1	57 13.0	−72	0.007 2269	24	3 56	20 11
4	814.5	18 47 24.456	324	− 4	101 51 8.1	57 13.0	−78	0.007 2293	2	3 57	20 11
5	815.5	18 51 21.012	325	+ 1	102 48 21.1	57 13.1	−82	0.007 2291	29	3 58	20 11
6	816.5	18 55 17.569	+326	+ 5	103 45 34.2	57 13.2	−81	0.007 2262	56	3 59	20 10
7	817.5	18 59 14.125	327	+ 9	104 42 47.4	57 13.1	−78	0.007 2206	82	3 59	20 10
8	818.5	19 3 10.682	328	+10	105 40 0.5	57 13.1	−72	0.007 2124	109	4 0	20 9
9	819.5	19 7 7.238	329	+ 8	106 37 13.6	57 13.0	−63	0.007 2015	133	4 1	20 9
10	820.5	19 11 3.795	330	+ 4	107 34 26.6	57 12.9	−53	0.007 1882	157	4 2	20 8
11	821.5	19 15 0.351	331	− 1	108 31 39.5	57 12.9	−41	0.007 1725	179	4 3	20 7
12	822.5	19 18 56.907	+332	− 5	109 28 52.4	57 12.8	−27	0.007 1546	200	4 4	20 7
13	823.5	19 22 53.463	333	− 8	110 26 5.2	57 12.7	−13	0.007 1346	219	4 5	20 6
14	824.5	19 26 50.020	334	− 9	111 23 17.9	57 12.8	0	0.007 1127	237	4 6	20 5
15	825.5	19 30 46.576	335	− 7	112 20 30.7	57 13.0	+11	0.007 0890	254	4 7	20 4
16	826.5	19 34 43.132	336	− 4	113 17 43.7	57 13.1	+20	0.007 0636	271	4 8	20 3
17	827.5	19 38 39.688	336	+ 1	114 14 56.8	57 13.3	+26	0.007 0365	284	4 9	20 2
18	828.5	19 42 36.244	+337	+ 6	115 12 10.1	57 13.7	+29	0.007 0081	298	4 10	20 1
19	829.5	19 46 32.800	337	+10	116 9 23.8	57 14.2	+30	0.006 9783	313	4 11	20 0
20	830.5	19 50 29.356	338	+12	117 6 38.0	57 14.8	+27	0.006 9470	327	4 12	19 59
21	831.5	19 54 25.911	338	+12	118 3 52.8	57 15.3	+22	0.006 9143	341	4 14	19 58
22	832.5	19 58 22.467	339	+10	119 1 8.1	57 16.1	+14	0.006 8802	357	4 15	19 56
23	833.5	20 2 19.023	+339	+ 7	119 58 24.2		+ 5	0.006 8445		4 17	19 55

Column heading: 0ʰ Welt-Zeit (over Julian. Zeit through log R).

Tag	Wochentag	0ʰ Welt-Zeit						Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
		Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination			
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli 23	Di	−6 19.01	1.68	8 8 38.03	3 58.24	+20 9 34.7	12 17.9	67.40	15 46.46
24	Mi	6 20.69	1.12	8 12 36.27	3 57.67	19 57 16.8	12 37.9	67.32	15 46.54
25	Do	6 21.81	0.54	8 16 33.94	3 57.10	19 44 38.9	12 57.7	67.24	15 46.63
26	Fr	6 22.35	0.04	8 20 31.04	3 56.52	19 31 41.2	13 17.2	67.16	15 46.72
27	Sa	6 22.31	0.61	8 24 27.56	3 55.94	19 18 24.0	13 36.4	67.07	15 46.81
28	St	6 21.70	1.20	8 28 23.50	3 55.36	19 4 47.6	13 55.3	66.99	15 46.91
29	Mo	−6 20.50	1.78	8 32 18.86	3 54.77	+18 50 52.3	14 14.0	66.90	15 47.01
30	Di	6 18.72	2.37	8 36 13.63	3 54.19	18 36 38.3	14 32.3	66.81	15 47.12
31	Mi	6 16.35	2.96	8 40 7.82	3 53.59	18 22 6.0	14 50.5	66.73	15 47.23
Aug. 1	Do	6 13.39	3.55	8 44 1.41	3 53.00	18 7 15.5	15 8.3	66.64	15 47.34
2	Fr	6 9.84	4.15	8 47 54.41	3 52.41	17 52 7.2	15 25.8	66.55	15 47.45
3	Sa	6 5.69	4.75	8 51 46.82	3 51.80	17 36 41.4	15 43.0	66.47	15 47.58
4	St	−6 0.94	5.36	8 55 38.62	3 51.20	+17 20 58.4	15 59.8	66.38	15 47.71
5	Mo	5 55.58	5.96	8 59 29.82	3 50.60	17 4 58.6	16 16.4	66.29	15 47.85
6	Di	5 49.62	6.56	9 3 20.42	3 49.99	16 48 42.2	16 32.6	66.21	15 47.99
7	Mi	5 43.06	7.17	9 7 10.41	3 49.38	16 32 9.6	16 48.6	66.12	15 48.14
8	Do	5 35.89	7.77	9 10 59.79	3 48.78	16 15 21.0	17 4.2	66.03	15 48.29
9	Fr	5 28.12	8.38	9 14 48.57	3 48.18	15 58 16.8	17 19.5	65.95	15 48.45
10	Sa	−5 19.74	8.97	9 18 36.75	3 47.59	+15 40 57.3	17 34.5	65.86	15 48.61
11	St	5 10.77	9.55	9 22 24.34	3 46.99	15 23 22.8	17 49.3	65.78	15 48.77
12	Mo	5 1.22	10.14	9 26 11.33	3 46.42	15 5 33.5	18 3.6	65.70	15 48.93
13	Di	4 51.08	10.71	9 29 57.75	3 45.85	14 47 29.9	18 17.7	65.62	15 49.10
14	Mi	4 40.37	11.26	9 33 43.60	3 45.29	14 29 12.2	18 31.5	65.54	15 49.28
15	Do	4 29.11	11.81	9 37 28.89	3 44.74	14 10 40.7	18 45.1	65.46	15 49.46
16	Fr	−4 17.30	12.34	9 41 13.63	3 44.22	+13 51 55.6	18 58.2	65.38	15 49.64
17	Sa	4 4.96	12.86	9 44 57.85	3 43.69	13 32 57.4	19 11.1	65.31	15 49.82
18	St	3 52.10	13.36	9 48 41.54	3 43.20	13 13 46.3	19 23.8	65.23	15 50.00
19	Mo	3 38.74	13.84	9 52 24.74	3 42.70	12 54 22.5	19 36.0	65.16	15 50.19
20	Di	3 24.90	14.32	9 56 7.44	3 42.23	12 34 46.5	19 48.1	65.09	15 50.37
21	Mi	3 10.58	14.78	9 59 49.67	3 41.78	12 14 58.4	19 59.7	65.02	15 50.56
22	Do	−2 55.80	15.22	10 3 31.45	3 41.33	+11 54 58.7	20 11.1	64.95	15 50.75
23	Fr	2 40.58	15.65	10 7 12.78	3 40.91	11 34 47.6	20 22.2	64.89	15 50.95
24	Sa	2 24.93	16.06	10 10 53.69	3 40.49	11 14 25.4	20 32.9	64.82	15 51.15
25	St	2 8.87	16.46	10 14 34.18	3 40.09	10 53 52.5	20 43.4	64.76	15 51.35
26	Mo	1 52.41	16.84	10 18 14.27	3 39.72	10 33 9.1	20 53.5	64.70	15 51.55
27	Di	1 35.57	17.21	10 21 53.99	3 39.34	10 12 15.6	21 3.3	64.64	15 51.76
28	Mi	−1 18.36	17.55	10 25 33.33	3 39.00	+ 9 51 12.3	21 12.8	64.59	15 51.97
29	Do	1 0.81	17.89	10 29 12.33	3 38.66	9 29 59.5	21 21.9	64.53	15 52.18
30	Fr	0 42.92	18.22	10 32 50.99	3 38.34	9 8 37.6	21 30.8	64.48	15 52.40
31	Sa	0 24.70	18.52	10 36 29.33	3 38.03	8 47 6.8	21 39.2	64.43	15 52.61
Sept. 1	St	−0 6.18	18.83	10 40 7.36	3 37.73	8 25 27.6	21 47.4	64.38	15 52.83
2	Mo	+0 12.65		10 43 45.09		+ 8 3 40.2		64.34	15 53.06

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang	Untergang
										in {+50° Breite, 0ʰ Länge	
1940	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Juli 23	833.5	20 2 19.023	+339	+ 7	119 58 24.2	57 16.8	+ 5	0.006 8445	372	4 17	19 55
24	834.5	20 6 15.578	339	+ 2	120 55 41.0	57 17.7	− 6	0.006 8073	388	4 18	19 54
25	835.5	20 10 12.134	339	− 3	121 52 58.7	57 18.6	−18	0.006 7685	405	4 19	19 53
26	836.5	20 14 8.689	339	− 7	122 50 17.3	57 19.5	−30	0.006 7280	424	4 21	19 52
27	837.5	20 18 5.244	339	−11	123 47 36.8	57 20.5	−42	0.006 6856	441	4 22	19 50
28	838.5	20 22 1.800	339	−13	124 44 57.3	57 21.6	−53	0.006 6415	462	4 24	19 49
29	839.5	20 25 58.355	+339	−13	125 42 18.9	57 22.6	−63	0.006 5953	482	4 25	19 48
30	840.5	20 29 54.910	338	−11	126 39 41.5	57 23.6	−71	0.006 5471	503	4 26	19 46
31	841.5	20 33 51.465	338	− 7	127 37 5.1	57 24.7	−77	0.006 4968	526	4 27	19 45
Aug. 1	842.5	20 37 48.020	338	− 2	128 34 29.8	57 25.8	−80	0.006 4442	548	4 29	19 43
2	843.5	20 41 44.574	337	+ 3	129 31 55.6	57 26.8	−80	0.006 3894	573	4 30	19 42
3	844.5	20 45 41.129	336	+ 7	130 29 22.4	57 27.8	−76	0.006 3321	598	4 31	19 40
4	845.5	20 49 37.684	+336	+ 9	131 26 50.2	57 28.8	−71	0.006 2723	624	4 32	19 38
5	846.5	20 53 34.238	335	+ 9	132 24 19.0	57 29.7	−62	0.006 2099	647	4 34	19 37
6	847.5	20 57 30.793	334	+ 6	133 21 48.7	57 30.5	−51	0.006 1452	670	4 35	19 35
7	848.5	21 1 27.347	333	+ 2	134 19 19.2	57 31.4	−38	0.006 0782	693	4 37	19 34
8	849.5	21 5 23.902	332	− 3	135 16 50.6	57 32.2	−24	0.006 0089	714	4 38	19 32
9	850.5	21 9 20.456	331	− 7	136 14 22.8	57 33.0	−10	0.005 9375	733	4 40	19 30
10	851.5	21 13 17.010	+330	− 8	137 11 55.8	57 33.8	+ 4	0.005 8642	751	4 41	19 28
11	852.5	21 17 13.564	328	− 7	138 9 29.6	57 34.7	+16	0.005 7891	768	4 43	19 27
12	853.5	21 21 10.118	327	− 4	139 7 4.3	57 35.6	+25	0.005 7123	781	4 44	19 25
13	854.5	21 25 6.672	325	0	140 4 39.9	57 36.5	+33	0.005 6342	795	4 46	19 23
14	855.5	21 29 3.225	324	+ 5	141 2 16.4	57 37.6	+37	0.005 5547	808	4 47	19 21
15	856.5	21 32 59.779	322	+ 9	141 59 54.0	57 38.7	+38	0.005 4739	818	4 49	19 19
16	857.5	21 36 56.333	+321	+12	142 57 32.7	57 39.9	+36	0.005 3921	829	4 50	19 17
17	858.5	21 40 52.887	319	+12	143 55 12.6	57 41.1	+31	0.005 3092	839	4 52	19 15
18	859.5	21 44 49.440	317	+11	144 52 53.7	57 42.5	+23	0.005 2253	849	4 53	19 13
19	860.5	21 48 45.994	315	+ 8	145 50 36.2	57 44.0	+14	0.005 1404	860	4 55	19 11
20	861.5	21 52 42.547	313	+ 4	146 48 20.2	57 45.4	+ 4	0.005 0544	868	4 56	19 9
21	862.5	21 56 39.100	311	− 1	147 46 5.6	57 47.0	− 7	0.004 9676	879	4 58	19 8
22	863.5	22 0 35.653	+308	− 5	148 43 52.6	57 48.6	−19	0.004 8797	890	4 59	19 6
23	864.5	22 4 32.206	306	− 9	149 41 41.2	57 50.3	−31	0.004 7907	901	5 1	19 4
24	865.5	22 8 28.759	304	−12	150 39 31.5	57 52.1	−42	0.004 7006	913	5 2	19 2
25	866.5	22 12 25.312	301	−13	151 37 23.6	57 53.8	−53	0.004 6093	926	5 4	19 0
26	867.5	22 16 21.865	299	−12	152 35 17.4	57 55.6	−60	0.004 5167	938	5 5	18 57
27	868.5	22 20 18.418	296	− 9	153 33 13.0	57 57.4	−66	0.004 4229	952	5 7	18 55
28	869.5	22 24 14.971	+294	− 5	154 31 10.4	57 59.3	−69	0.004 3277	968	5 8	18 53
29	870.5	22 28 11.523	291	0	155 29 9.7	58 1.1	−70	0.004 2309	984	5 10	18 51
30	871.5	22 32 8.076	288	+ 5	156 27 10.8	58 3.0	−67	0.004 1325	1001	5 11	18 49
31	872.5	22 36 4.628	285	+ 8	157 25 13.8	58 4.7	−61	0.004 0324	1019	5 13	18 47
Sept. 1	873.5	22 40 1.181	282	+ 9	158 23 18.5	58 6.6	−52	0.003 9305	1036	5 14	18 45
2	874.5	22 43 57.733	+279	+ 6	159 21 25.1		−41	0.003 8269		5 16	18 43

Tag	Wochentag	0h Welt-Zeit Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 2	Mo	+ 0 12.65	19.10	10 43 45.09	3 37.44	+8 3 40.2	21 55.2	64.34	15 53.06
3	Di	0 31.75	19.38	10 47 22.53	3 37.17	7 41 45.0	22 2.6	64.30	15 53.29
4	Mi	0 51.13	19.64	10 50 59.70	3 36.91	7 19 42.4	22 9.7	64.26	15 53.53
5	Do	1 10.77	19.89	10 54 36.61	3 36.67	6 57 32.7	22 16.4	64.22	15 53.77
6	Fr	1 30.66	20.12	10 58 13.28	3 36.43	6 35 16.3	22 22.9	64.19	15 54.01
7	Sa	1 50.78	20.34	11 1 49.71	3 36.21	6 12 53.4	22 29.0	64.16	15 54.26
8	St	+ 2 11.12	20.54	11 5 25.92	3 36.02	+5 50 24.4	22 34.7	64.13	15 54.51
9	Mo	2 31.66	20.71	11 9 1.94	3 35.84	5 27 49.7	22 40.2	64.11	15 54.76
10	Di	2 52.37	20.88	11 12 37.78	3 35.67	5 5 9.5	22 45.2	64.08	15 55.01
11	Mi	3 13.25	21.01	11 16 13.45	3 35.54	4 42 24.3	22 50.1	64.06	15 55.27
12	Do	3 34.26	21.13	11 19 48.99	3 35.42	4 19 34.2	22 54.5	64.05	15 55.53
13	Fr	3 55.39	21.23	11 23 24.41	3 35.33	3 56 39.7	22 58.7	64.04	15 55.78
14	Sa	+ 4 16.62	21.30	11 26 59.74	3 35.25	+3 33 41.0	23 2.5	64.03	15 56.04
15	St	4 37.92	21.35	11 30 34.99	3 35.20	3 10 38.5	23 6.1	64.02	15 56.30
16	Mo	4 59.27	21.37	11 34 10.19	3 35.18	2 47 32.4	23 9.3	64.01	15 56.56
17	Di	5 20.64	21.38	11 37 45.37	3 35.18	2 24 23.1	23 12.2	64.01	15 56.82
18	Mi	5 42.02	21.36	11 41 20.55	3 35.19	2 1 10.9	23 14.7	64.01	15 57.08
19	Do	6 3.38	21.31	11 44 55.74	3 35.24	1 37 56.2	23 17.0	64.01	15 57.34
20	Fr	+ 6 24.69	21.25	11 48 30.98	3 35.30	+1 14 39.2	23 18.9	64.01	15 57.61
21	Sa	6 45.94	21.16	11 52 6.28	3 35.39	0 51 20.3	23 20.5	64.02	15 57.87
22	St	7 7.10	21.05	11 55 41.67	3 35.51	0 27 59.8	23 21.8	64.04	15 58.13
23	Mo	7 28.15	20.91	11 59 17.18	3 35.63	+0 4 38.0	23 22.7	64.06	15 58.40
24	Di	7 49.06	20.76	12 2 52.81	3 35.79	−0 18 44.7	23 23.3	64.08	15 58.66
25	Mi	8 9.82	20.59	12 6 28.60	3 35.97	0 42 8.0	23 23.6	64.10	15 58.93
26	Do	+ 8 30.41	20.38	12 10 4.57	3 36.17	−1 5 31.6	23 23.5	64.12	15 59.19
27	Fr	8 50.79	20.17	12 13 40.74	3 36.38	1 28 55.1	23 23.0	64.15	15 59.46
28	Sa	9 10.96	19.94	12 17 17.12	3 36.62	1 52 18.1	23 22.3	64.18	15 59.73
29	St	9 30.90	19.68	12 20 53.74	3 36.87	2 15 40.4	23 21.0	64.21	16 0.00
30	Mo	9 50.58	19.41	12 24 30.61	3 37.14	2 39 1.4	23 19.6	64.25	16 0.27
Okt. 1	Di	10 9.99	19.13	12 28 7.75	3 37.42	3 2 21.0	23 17.7	64.29	16 0.54
2	Mi	+10 29.12	18.82	12 31 45.17	3 37.73	−3 25 38.7	23 15.3	64.34	16 0.82
3	Do	10 47.94	18.52	12 35 22.90	3 38.03	3 48 54.0	23 12.7	64.38	16 1.10
4	Fr	11 6.46	18.18	12 39 0.93	3 38.37	4 12 6.7	23 9.6	64.43	16 1.38
5	Sa	11 24.64	17.84	12 42 39.30	3 38.72	4 35 16.3	23 6.2	64.48	16 1.66
6	St	11 42.48	17.47	12 46 18.02	3 39.08	4 58 22.5	23 2.4	64.54	16 1.94
7	Mo	11 59.95	17.09	12 49 57.10	3 39.46	5 21 24.9	22 58.3	64.60	16 2.22
8	Di	+12 17.04	16.69	12 53 36.56	3 39.86	−5 44 23.2	22 53.7	64.66	16 2.51
9	Mi	12 33.73	16.26	12 57 16.42	3 40.29	6 7 16.9	22 48.8	64.72	16 2.79
10	Do	12 49.99	15.83	13 0 56.71	3 40.73	6 30 5.7	22 43.6	64.78	16 3.08
11	Fr	13 5.82	15.36	13 4 37.44	3 41.19	6 52 49.3	22 37.9	64.85	16 3.36
12	Sa	13 21.18	14.87	13 8 18.63	3 41.68	7 15 27.2	22 32.0	64.93	16 3.64
13	St	+13 36.05		13 12 0.31		−7 37 59.2		65.00	16 3.92

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang	Untergang
										in {+50° Breite, 0h Länge}	
1940	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Sept. 2	874.5	22 43 57.733	+279	+ 6	159 21 25.1	58 8.2	−41	0.003 8269	1055	5 16	18 43
3	875.5	22 47 54.285	276	+ 3	160 19 33.3	58 9.9	−28	0.003 7214	1074	5 17	18 41
4	876.5	22 51 50.838	273	− 2	161 17 43.2	58 11.4	−13	0.003 6140	1091	5 19	18 39
5	877.5	22 55 47.390	270	− 6	162 15 54.6	58 13.0	+ 2	0.003 5049	1106	5 20	18 36
6	878.5	22 59 43.942	267	− 8	163 14 7.6	58 14.4	+17	0.003 3943	1120	5 22	18 34
7	879.5	23 3 40.494	264	− 8	164 12 22.0	58 16.0	+30	0.003 2823	1134	5 23	18 32
8	880.5	23 7 37.046	+260	− 5	165 10 38.0	58 17.4	+41	0.003 1689	1144	5 25	18 30
9	881.5	23 11 33.598	257	0	166 8 55.4	58 18.9	+49	0.003 0545	1154	5 26	18 28
10	882.5	23 15 30.150	253	+ 5	167 7 14.3	58 20.5	+54	0.002 9391	1161	5 28	18 25
11	883.5	23 19 26.702	250	+ 9	168 5 34.8	58 22.0	+56	0.002 8230	1168	5 29	18 23
12	884.5	23 23 23.254	247	+12	169 3 56.8	58 23.7	+55	0.002 7062	1172	5 31	18 21
13	885.5	23 27 19.806	243	+13	170 2 20.5	58 25.4	+51	0.002 5890	1176	5 32	18 19
14	886.5	23 31 16.358	+240	+12	171 0 45.9	58 27.1	+44	0.002 4714	1179	5 34	18 17
15	887.5	23 35 12.909	236	+ 9	171 59 13.0	58 29.0	+36	0.002 3535	1182	5 35	18 14
16	888.5	23 39 9.461	232	+ 5	172 57 42.0	58 30.8	+25	0.002 2353	1183	5 37	18 12
17	889.5	23 43 6.013	229	+ 1	173 56 12.8	58 32.8	+13	0.002 1170	1185	5 38	18 10
18	890.5	23 47 2.565	225	− 4	174 54 45.6	58 34.8	+ 1	0.001 9985	1186	5 40	18 8
19	891.5	23 50 59.116	222	− 8	175 53 20.4	58 36.8	−11	0.001 8799	1188	5 41	18 6
20	892.5	23 54 55.668	+218	−11	176 51 57.2	58 38.9	−23	0.001 7611	1189	5 43	18 3
21	893.5	23 58 52.220	214	−12	177 50 36.1	58 41.1	−33	0.001 6422	1191	5 44	18 1
22	894.5	0 2 48.771	210	−12	178 49 17.2	58 43.3	−42	0.001 5231	1194	5 46	17 59
23	895.5	0 6 45.323	207	−10	179 48 0.5	58 45.5	−49	0.001 4037	1196	5 47	17 57
24	896.5	0 10 41.875	203	− 6	180 46 46.0	58 47.8	−53	0.001 2841	1199	5 49	17 55
25	897.5	0 14 38.427	199	− 2	181 45 33.8	58 50.1	−54	0.001 1642	1204	5 50	17 52
26	898.5	0 18 34.978	+196	+ 3	182 44 23.9	58 52.3	−52	0.001 0438	1209	5 52	17 50
27	899.5	0 22 31.530	192	+ 6	183 43 16.2	58 54.7	−48	0.000 9229	1216	5 53	17 48
28	900.5	0 26 28.082	188	+ 8	184 42 10.9	58 56.9	−39	0.000 8013	1223	5 55	17 46
29	901.5	0 30 24.633	185	+ 6	185 41 7.8	58 59.2	−28	0.000 6790	1231	5 56	17 44
30	902.5	0 34 21.185	181	+ 3	186 40 7.0	59 1.3	−15	0.000 5559	1240	5 58	17 41
Okt. 1	903.5	0 38 17.737	178	− 1	187 39 8.3	59 3.3	− 1	0.000 4319	1248	5 59	17 39
2	904.5	0 42 14.289	+174	− 6	188 38 11.6	59 5.4	+13	0.000 3071	1257	6 1	17 37
3	905.5	0 46 10.840	170	− 9	189 37 17.0	59 7.3	+28	0.000 1814	1265	6 3	17 35
4	906.5	0 50 7.392	167	− 9	190 36 24.3	59 9.2	+42	0.000 0549	1271	6 4	17 33
5	907.5	0 54 3.944	163	− 7	191 35 33.5	59 10.9	+54	9.999 9278	1276	6 6	17 30
6	908.5	0 58 0.496	160	− 2	192 34 44.4	59 12.8	+64	9.999 8002	1280	6 7	17 28
7	909.5	1 1 57.048	157	+ 3	193 33 57.2	59 14.5	+71	9.999 6722	1281	6 9	17 26
8	910.5	1 5 53.600	+153	+ 8	194 33 11.7	59 16.2	+74	9.999 5441	1280	6 11	17 24
9	911.5	1 9 50.152	150	+12	195 32 27.9	59 18.0	+74	9.999 4161	1278	6 12	17 22
10	912.5	1 13 46.704	147	+14	196 31 45.9	59 19.8	+71	9.999 2883	1275	6 14	17 20
11	913.5	1 17 43.256	143	+14	197 31 5.7	59 21.7	+65	9.999 1608	1270	6 15	17 18
12	914.5	1 21 39.808	140	+11	198 30 27.4	59 23.4	+57	9.999 0338	1263	6 17	17 16
13	915.5	1 25 36.361	+137	+ 7	199 29 50.8		+47	9.998 9075		6 18	17 14

Tag	Wochentag	Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
		0ʰ Welt-Zeit							
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt. 13	St	+13 36.05	14.37	13 12 0.31	3 42.19	− 7 37 59.2	22 25.6	65.00	16 3.92
14	Mo	13 50.42	13.84	13 15 42.50	3 42.71	8 0 24.8	22 18.9	65.08	16 4.20
15	Di	14 4.26	13.29	13 19 25.21	3 43.26	8 22 43.7	22 11.8	65.16	16 4.48
16	Mi	14 17.55	12.72	13 23 8.47	3 43.83	8 44 55.5	22 4.4	65.24	16 4.75
17	Do	14 30.27	12.13	13 26 52.30	3 44.42	9 6 59.9	21 56.6	65.33	16 5.03
18	Fr	14 42.40	11.53	13 30 36.72	3 45.03	9 28 56.5	21 48.4	65.41	16 5.30
19	Sa	+14 53.93	10.89	13 34 21.75	3 45.66	− 9 50 44.9	21 39.8	65.50	16 5.57
20	St	15 4.82	10.24	13 38 7.41	3 46.31	10 12 24.7	21 30.8	65.60	16 5.84
21	Mo	15 15.06	9.58	13 41 53.72	3 46.98	10 33 55.5	21 21.5	65.69	16 6.10
22	Di	15 24.64	8.88	13 45 40.70	3 47.66	10 55 17.0	21 11.8	65.79	16 6.36
23	Mi	15 33.52	8.19	13 49 28.36	3 48.37	11 16 28.8	21 1.7	65.89	16 6.63
24	Do	15 41.71	7.47	13 53 16.73	3 49.08	11 37 30.5	20 51.2	65.99	16 6.89
25	Fr	+15 49.18	6.74	13 57 5.81	3 49.82	−11 58 21.7	20 40.3	66.09	16 7.14
26	Sa	15 55.92	5.99	14 0 55.63	3 50.57	12 19 2.0	20 29.0	66.19	16 7.40
27	St	16 1.91	5.23	14 4 46.20	3 51.32	12 39 31.0	20 17.3	66.30	16 7.66
28	Mo	16 7.14	4.46	14 8 37.52	3 52.08	12 59 48.3	20 5.2	66.40	16 7.91
29	Di	16 11.60	3.69	14 12 29.60	3 52.87	13 19 53.5	19 52.6	66.51	16 8.17
30	Mi	16 15.29	2.91	14 16 22.47	3 53.64	13 39 46.1	19 39.7	66.62	16 8.43
31	Do	+16 18.20	2.13	14 20 16.11	3 54.43	−13 59 25.8	19 26.3	66.74	16 8.68
Nov. 1	Fr	16 20.33	1.34	14 24 10.54	3 55.21	14 18 52.1	19 12.5	66.85	16 8.93
2	Sa	16 21.67	0.54	14 28 5.75	3 56.02	14 38 4.6	18 58.2	66.96	16 9.19
3	St	16 22.21	0.26	14 32 1.77	3 56.81	14 57 2.8	18 43.6	67.08	16 9.44
4	Mo	16 21.95	1.06	14 35 58.58	3 57.61	15 15 46.4	18 28.5	67.20	16 9.69
5	Di	16 20.89	1.86	14 39 56.19	3 58.42	15 34 14.9	18 13.0	67.31	16 9.94
6	Mi	+16 19.03	2.68	14 43 54.61	3 59.23	−15 52 27.9	17 57.1	67.43	16 10.18
7	Do	16 16.35	3.50	14 47 53.84	4 0.06	16 10 25.0	17 40.9	67.55	16 10.43
8	Fr	16 12.85	4.32	14 51 53.90	4 0.87	16 28 5.9	17 24.1	67.67	16 10.67
9	Sa	16 8.53	5.15	14 55 54.77	4 1.71	16 45 30.0	17 7.1	67.79	16 10.91
10	St	16 3.38	5.99	14 59 56.48	4 2.54	17 2 37.1	16 49.5	67.91	16 11.15
11	Mo	15 57.39	6.82	15 3 59.02	4 3.37	17 19 26.6	16 31.7	68.03	16 11.38
12	Di	+15 50.57	7.66	15 8 2.39	4 4.22	−17 35 58.3	16 13.4	68.15	16 11.61
13	Mi	15 42.91	8.50	15 12 6.61	4 5.05	17 52 11.7	15 54.8	68.27	16 11.84
14	Do	15 34.41	9.34	15 16 11.66	4 5.90	18 8 6.5	15 35.6	68.39	16 12.06
15	Fr	15 25.07	10.19	15 20 17.56	4 6.75	18 23 42.1	15 16.3	68.51	16 12.28
16	Sa	15 14.88	11.03	15 24 24.31	4 7.59	18 38 58.4	14 56.5	68.62	16 12.49
17	St	15 3.85	11.88	15 28 31.90	4 8.43	18 53 54.9	14 36.2	68.74	16 12.69
18	Mo	+14 51.97	12.72	15 32 40.33	4 9.27	−19 8 31.1	14 15.8	68.85	16 12.90
19	Di	14 39.25	13.55	15 36 49.60	4 10.11	19 22 46.9	13 54.8	68.97	16 13.10
20	Mi	14 25.70	14.39	15 40 59.71	4 10.94	19 36 41.7	13 33.5	69.08	16 13.30
21	Do	14 11.31	15.21	15 45 10.65	4 11.77	19 50 15.2	13 11.8	69.19	16 13.49
22	Fr	13 56.10	16.03	15 49 22.42	4 12.59	20 3 27.0	12 49.9	69.30	16 13.67
23	Sa	+13 40.07		15 53 35.01		−20 16 16.9		69.41	16 13.85

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0h Länge	Untergang
1940	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Okt. 13	915.5	1 25 36.361	+137	+ 7	199 29 50.8	59 25.4	+47	9.998 9075	1258	6 18	17 14
14	916.5	1 29 32.913	134	+ 3	200 29 16.2	59 27.3	+36	9.998 7817	1249	6 20	17 12
15	917.5	1 33 29.465	131	− 2	201 28 43.5	59 29.3	+24	9.998 6568	1241	6 21	17 10
16	918.5	1 37 26.018	128	− 6	202 28 12.8	59 31.3	+11	9.998 5327	1232	6 23	17 8
17	919.5	1 41 22.570	125	− 9	203 27 44.1	59 33.3	− 1	9.998 4095	1223	6 24	17 6
18	920.5	1 45 19.123	122	−11	204 27 17.4	59 35.4	−12	9.998 2872	1213	6 26	17 4
19	921.5	1 49 15.676	+120	−12	205 26 52.8	59 37.6	−21	9.998 1659	1203	6 28	17 2
20	922.5	1 53 12.228	117	−10	206 26 30.4	59 39.8	−29	9.998 0456	1193	6 29	17 0
21	923.5	1 57 8.781	115	− 7	207 26 10.2	59 41.9	−34	9.997 9263	1185	6 31	16 58
22	924.5	2 1 5.334	112	− 3	208 25 52.1	59 44.2	−35	9.997 8078	1176	6 33	16 56
23	925.5	2 5 1.887	110	+ 1	209 25 36.3	59 46.5	−35	9.997 6902	1169	6 35	16 54
24	926.5	2 8 58.440	107	+ 5	210 25 22.8	59 48.8	−31	9.997 5733	1161	6 36	16 52
25	927.5	2 12 54.993	+105	+ 7	211 25 11.6	59 51.0	−24	9.997 4572	1155	6 38	16 50
26	928.5	2 16 51.546	103	+ 6	212 25 2.6	59 53.2	−14	9.997 3417	1150	6 39	16 48
27	929.5	2 20 48.100	101	+ 4	213 24 55.8	59 55.5	− 2	9.997 2267	1146	6 41	16 46
28	930.5	2 24 44.653	99	− 1	214 24 51.3	59 57.6	+12	9.997 1121	1143	6 43	16 44
29	931.5	2 28 41.206	97	− 5	215 24 48.9	59 59.6	+26	9.996 9978	1141	6 44	16 43
30	932.5	2 32 37.760	95	− 9	216 24 48.5	60 1.7	+41	9.996 8837	1138	6 46	16 41
31	933.5	2 36 34.314	+ 94	−10	217 24 50.2	60 3.5	+55	9.996 7699	1137	6 47	16 40
Nov. 1	934.5	2 40 30.868	92	− 9	218 24 53.7	60 5.3	+67	9.996 6562	1133	6 49	16 38
2	935.5	2 44 27.421	91	− 5	219 24 59.0	60 7.0	+76	9.996 5429	1129	6 51	16 36
3	936.5	2 48 23.975	89	0	220 25 6.0	60 8.6	+83	9.996 4300	1125	6 52	16 34
4	937.5	2 52 20.529	88	+ 6	221 25 14.6	60 10.2	+88	9.996 3175	1117	6 54	16 33
5	938.5	2 56 17.083	87	+11	222 25 24.8	60 11.8	+89	9.996 2058	1108	6 55	16 31
6	939.5	3 0 13.638	+ 85	+14	223 25 36.6	60 13.2	+88	9.996 0950	1098	6 57	16 29
7	940.5	3 4 10.192	84	+15	224 25 49.8	60 14.7	+83	9.995 9852	1086	6 59	16 28
8	941.5	3 8 6.747	84	+13	225 26 4.5	60 16.3	+75	9.995 8766	1073	7 1	16 26
9	942.5	3 12 3.301	83	+ 9	226 26 20.8	60 17.7	+66	9.995 7693	1058	7 2	16 25
10	943.5	3 15 59.856	82	+ 5	227 26 38.5	60 19.2	+55	9.995 6635	1043	7 4	16 23
11	944.5	3 19 56.410	81	0	228 26 57.7	60 20.7	+43	9.995 5592	1025	7 6	16 22
12	945.5	3 23 52.965	+ 81	− 5	229 27 18.4	60 22.2	+30	9.995 4567	1008	7 8	16 21
13	946.5	3 27 49.520	80	− 8	230 27 40.6	60 23.8	+19	9.995 3559	988	7 9	16 19
14	947.5	3 31 46.075	80	−10	231 28 4.4	60 25.3	+ 9	9.995 2571	970	7 11	16 18
15	948.5	3 35 42.630	80	−11	232 28 29.7	60 27.0	− 1	9.995 1601	951	7 12	16 16
16	949.5	3 39 39.186	80	−10	233 28 56.7	60 28.5	−10	9.995 0650	929	7 14	16 15
17	950.5	3 43 35.741	80	− 7	234 29 25.2	60 30.2	−15	9.994 9721	910	7 16	16 14
18	951.5	3 47 32.296	+ 80	− 3	235 29 55.4	60 31.9	−18	9.994 8811	889	7 17	16 13
19	952.5	3 51 28.852	80	+ 1	236 30 27.3	60 33.6	−18	9.994 7922	869	7 19	16 12
20	953.5	3 55 25.408	80	+ 5	237 31 0.9	60 35.4	−16	9.994 7053	851	7 20	16 11
21	954.5	3 59 21.963	81	+ 7	238 31 36.3	60 37.1	−10	9.994 6202	832	7 22	16 10
22	955.5	4 3 18.519	81	+ 7	239 32 13.4	60 38.7	− 1	9.994 5370	815	7 23	16 9
23	956.5	4 7 15.075	+ 82	+ 5	240 32 52.1		+10	9.994 4555		7 25	16 8

Tag	Wochentag	0h Welt-Zeit Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1940		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Nov. 23	Sa	+13 40.07	16.84	15 53 35.01	+4 13.39	−20 16 16.9	12 27.5	69.41	16 13.85
24	St	13 23.23	17.63	15 57 48.40	+4 14.19	20 28 44.4	12 4.8	69.52	16 14.03
25	Mo	13 5.60	18.41	16 2 2.59	+4 14.97	20 40 49.2	11 41.8	69.63	16 14.21
26	Di	12 47.19	19.17	16 6 17.56	+4 15.72	20 52 31.0	11 18.4	69.73	16 14.38
27	Mi	12 28.02	19.91	16 10 33.28	+4 16.46	21 3 49.4	10 54.7	69.83	16 14.55
28	Do	12 8.11	20.63	16 14 49.74	+4 17.19	21 14 44.1	10 30.6	69.93	16 14.72
29	Fr	+11 47.48	21.32	16 19 6.93	+4 17.88	−21 25 14.7	10 6.4	70.02	16 14.89
30	Sa	11 26.16	21.99	16 23 24.81	+4 18.55	21 35 21.1	9 41.6	70.12	16 15.05
Dez. 1	St	11 4.17	22.63	16 27 43.36	+4 19.19	21 45 2.7	9 16.6	70.21	16 15.20
2	Mo	10 41.54	23.26	16 32 2.55	+4 19.81	21 54 19.3	8 51.4	70.30	16 15.36
3	Di	10 18.28	23.85	16 36 22.36	+4 20.40	22 3 10.7	8 25.9	70.38	16 15.51
4	Mi	9 54.43	24.41	16 40 42.76	+4 20.97	22 11 36.6	8 0.1	70.46	16 15.66
5	Do	+ 9 30.02	24.95	16 45 3.73	+4 21.51	−22 19 36.7	7 34.1	70.54	16 15.81
6	Fr	9 5.07	25.47	16 49 25.24	+4 22.03	22 27 10.8	7 7.7	70.61	16 15.95
7	Sa	8 39.60	25.96	16 53 47.27	+4 22.51	22 34 18.5	6 41.2	70.68	16 16.09
8	St	8 13.64	26.42	16 58 9.78	+4 22.98	22 40 59.7	6 14.6	70.75	16 16.22
9	Mo	7 47.22	26.85	17 2 32.76	+4 23.41	22 47 14.3	5 47.6	70.82	16 16.35
10	Di	7 20.37	27.27	17 6 56.17	+4 23.82	22 53 1.9	5 20.5	70.88	16 16.48
11	Mi	+ 6 53.10	27.64	17 11 19.99	+4 24.20	−22 58 22.4	4 53.3	70.93	16 16.60
12	Do	6 25.46	27.99	17 15 44.19	+4 24.55	23 3 15.7	4 25.8	70.98	16 16.71
13	Fr	5 57.47	28.32	17 20 8.74	+4 24.87	23 7 41.5	3 58.2	71.03	16 16.82
14	Sa	5 29.15	28.62	17 24 33.61	+4 25.18	23 11 39.7	3 30.5	71.07	16 16.92
15	St	5 0.53	28.88	17 28 58.79	+4 25.44	23 15 10.2	3 2.7	71.11	16 17.01
16	Mo	4 31.65	29.12	17 33 24.23	+4 25.68	23 18 12.9	2 34.7	71.14	16 17.10
17	Di	+ 4 2.53	29.34	17 37 49.91	+4 25.89	−23 20 47.6	2 6.7	71.17	16 17.19
18	Mi	3 33.19	29.51	17 42 15.80	+4 26.08	23 22 54.3	1 38.5	71.20	16 17.27
19	Do	3 3.68	29.67	17 46 41.88	+4 26.22	23 24 32.8	1 10.4	71.22	16 17.34
20	Fr	2 34.01	29.79	17 51 8.10	+4 26.35	23 25 43.2	0 42.2	71.23	16 17.40
21	Sa	2 4.22	29.88	17 55 34.45	+4 26.43	23 26 25.4	0 13.9	71.24	16 17.46
22	St	1 34.34	29.93	18 0 0.88	+4 26.49	23 26 39.3	0 14.4	71.25	16 17.51
23	Mo	+ 1 4.41	29.95	18 4 27.37	+4 26.51	−23 26 24.9	0 42.7	71.26	16 17.56
24	Di	0 34.46	29.94	18 8 53.88	+4 26.49	23 25 42.2	1 10.9	71.26	16 17.61
25	Mi	+ 0 4.52	29.88	18 13 20.37	+4 26.44	23 24 31.3	1 39.1	71.25	16 17.65
26	Do	− 0 25.36	29.79	18 17 46.81	+4 26.35	23 22 52.2	2 7.3	71.24	16 17.69
27	Fr	0 55.15	29.66	18 22 13.16	+4 26.22	23 20 44.9	2 35.5	71.22	16 17.72
28	Sa	1 24.81	29.49	18 26 39.38	+4 26.05	23 18 9.4	3 3.5	71.20	16 17.75
29	St	− 1 54.30	29.29	18 31 5.43	+4 25.85	−23 15 5.9	3 31.5	71.17	16 17.78
30	Mo	2 23.59	29.05	18 35 31.28	+4 25.60	23 11 34.4	3 59.3	71.14	16 17.80
31	Di	2 52.64	28.76	18 39 56.88	+4 25.31	23 7 35.1	4 27.1	71.10	16 17.81
32	Mi	− 3 21.40		18 44 22.19		−23 3 8.0		71.06	16 17.83

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1940.0 Länge		Breite	log R		Aufgang	Untergang
1940	2429	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01 ″			in +50° Breite 0h Länge h m	h m
Nov. 23	956.5	4 7 15.075	+82	+5	240 32 52.1	60 40.6	+10	9.994 4555	798	7 25	16 8
24	957.5	4 11 11.631	82	+1	241 33 32.7	60 42.1	+23	9.994 3757	784	7 26	16 7
25	958.5	4 15 8.187	83	−4	242 34 14.8	60 43.9	+37	9.994 2973	770	7 28	16 6
26	959.5	4 19 4.743	84	−8	243 34 58.7	60 45.3	+52	9.994 2203	757	7 29	16 5
27	960.5	4 23 1.299	85	−11	244 35 44.0	60 46.8	+65	9.994 1446	745	7 30	16 4
28	961.5	4 26 57.856	85	−11	245 36 30.8	60 48.2	+77	9.994 0701	734	7 32	16 3
29	962.5	4 30 54.412	+86	−8	246 37 19.0	60 49.5	+88	9.993 9967	721	7 33	16 3
30	963.5	4 34 50.969	88	−3	247 38 8.5	60 50.6	+96	9.993 9246	710	7 35	16 2
Dez. 1	964.5	4 38 47.525	89	+3	248 38 59.1	60 51.6	+100	9.993 8536	698	7 36	16 1
2	965.5	4 42 44.082	90	+8	249 39 50.7	60 52.6	+101	9.993 7838	684	7 37	16 1
3	966.5	4 46 40.638	91	+12	250 40 43.3	60 53.5	+100	9.993 7154	669	7 39	16 0
4	967.5	4 50 37.195	93	+14	251 41 36.8	60 54.3	+95	9.993 6485	653	7 40	16 0
5	968.5	4 54 33.752	+94	+14	252 42 31.1	60 55.1	+88	9.993 5832	634	7 42	15 59
6	969.5	4 58 30.309	96	+11	253 43 26.2	60 55.8	+78	9.993 5198	616	7 43	15 59
7	970.5	5 2 26.866	97	+6	254 44 22.0	60 56.5	+68	9.993 4582	596	7 44	15 59
8	971.5	5 6 23.423	99	+2	255 45 18.5	60 57.2	+58	9.993 3986	574	7 45	15 59
9	972.5	5 10 19.980	100	−3	256 46 15.7	60 57.9	+46	9.993 3412	551	7 46	15 58
10	973.5	5 14 16.537	102	−7	257 47 13.6	60 58.5	+34	9.993 2861	527	7 47	15 58
11	974.5	5 18 13.094	+104	−10	258 48 12.1	60 59.2	+22	9.993 2334	503	7 48	15 58
12	975.5	5 22 9.651	106	−11	259 49 11.3	60 59.8	+13	9.993 1831	477	7 49	15 58
13	976.5	5 26 6.208	107	−10	260 50 11.1	61 0.5	+5	9.993 1354	451	7 50	15 58
14	977.5	5 30 2.765	109	−8	261 51 11.6	61 1.2	−2	9.993 0903	424	7 51	15 59
15	978.5	5 33 59.322	111	−4	262 52 12.8	61 1.9	−5	9.993 0479	397	7 52	15 59
16	979.5	5 37 55.880	113	+1	263 53 14.7	61 2.6	−6	9.993 0082	370	7 53	15 59
17	980.5	5 41 52.437	+115	+5	264 54 17.3	61 3.4	−3	9.992 9712	343	7 54	15 59
18	981.5	5 45 48.994	117	+7	265 55 20.7	61 4.1	+2	9.992 9369	316	7 54	15 59
19	982.5	5 49 45.552	119	+8	266 56 24.8	61 4.9	+11	9.992 9053	290	7 55	16 0
20	983.5	5 53 42.109	121	+7	267 57 29.7	61 5.8	+21	9.992 8763	266	7 55	16 0
21	984.5	5 57 38.666	123	+3	268 58 35.5	61 6.5	+33	9.992 8497	242	7 56	16 1
22	985.5	6 1 35.224	125	−2	269 59 42.0	61 7.2	+47	9.992 8255	220	7 56	16 1
23	986.5	6 5 31.781	+127	−6	271 0 49.2	61 8.0	+61	9.992 8035	199	7 57	16 1
24	987.5	6 9 28.338	129	−10	272 1 57.2	61 8.6	+74	9.992 7836	180	7 57	16 2
25	988.5	6 13 24.896	131	−11	273 3 5.8	61 9.2	+86	9.992 7656	161	7 58	16 2
26	989.5	6 17 21.453	133	−9	274 4 15.0	61 9.6	+97	9.992 7495	144	7 58	16 3
27	990.5	6 21 18.010	134	−5	275 5 24.6	61 10.1	+105	9.992 7351	128	7 58	16 4
28	991.5	6 25 14.567	136	0	276 6 34.7	61 10.4	+110	9.992 7223	112	7 58	16 5
29	992.5	6 29 11.125	+138	+6	277 7 45.1	61 10.5	+111	9.992 7111	96	7 59	16 6
30	993.5	6 33 7.682	140	+10	278 8 55.6	61 10.6	+109	9.992 7015	79	7 59	16 7
31	994.5	6 37 4.239	142	+13	279 10 6.2	61 10.5	+105	9.992 6936	63	7 59	16 8
32	995.5	6 41 0.796	+144	+13	280 11 16.7		+99	9.992 6873		7 59	16 9

0h Welt-Zeit	Mittleres Äquinoktium 1940.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Jan. 0	+0.143 692	+17 276	− 43	0	−0.892 408	+ 2 494	+277	+4	−0.387 052	+1 082	+120	−1
1	0.160 968	17 228	48	+1	0.889 914	2 771	277	+4	0.385 970	1 203	121	+2
2	0.178 196	17 174	54	−3	0.887 143	3 047	276	+2	0.384 767	1 322	119	−4
3	0.195 370	17 114	60	−5	0.884 096	3 323	276	+3	0.383 445	1 442	120	−1
4	0.212 484	17 050	64	+2	0.880 773	3 598	275	+1	0.382 003	1 561	119	−2
5	0.229 534	16 980	70	+2	0.877 175	3 872	274	0	0.380 442	1 680	119	−1
6	+0.246 514	+16 904	− 76	0	−0.873 303	+ 4 146	+274	+2	−0.378 762	+1 798	+118	0
7	0.263 418	16 822	82	−3	0.869 157	4 417	271	−5	0.376 964	1 917	119	+4
8	0.280 240	16 735	87	−1	0.864 740	4 688	271	−3	0.375 047	2 033	116	−4
9	0.296 975	16 642	93	0	0.860 052	4 957	269	−4	0.373 014	2 150	117	0
10	0.313 617	16 544	98	+3	0.855 095	5 224	267	−4	0.370 864	2 266	116	+1
11	0.330 161	16 441	103	+4	0.849 871	5 490	266	0	0.368 598	2 381	115	−1
12	+0.346 602	+16 332	−109	−1	−0.844 381	+ 5 754	+264	0	−0.366 217	+2 495	+114	−2
13	0.362 934	16 217	115	−5	0.838 627	6 015	261	−3	0.363 722	2 608	113	0
14	0.379 151	16 098	119	0	0.832 612	6 274	259	−2	0.361 114	2 721	113	+5
15	0.395 249	15 974	124	+1	0.826 338	6 532	258	+4	0.358 393	2 833	112	+4
16	0.411 223	15 844	130	−1	0.819 806	6 786	254	+1	0.355 560	2 943	110	−3
17	0.427 067	15 711	133	+4	0.813 020	7 039	253	+5	0.352 617	3 052	109	−5
18	+0.442 778	+15 571	−140	−3	−0.805 981	+ 7 289	+250	+3	−0.349 565	+3 160	+108	−3
19	0.458 349	15 428	143	0	0.798 692	7 536	247	−1	0.346 405	3 268	108	+2
20	0.473 777	15 279	149	−2	0.791 156	7 780	244	−3	0.343 137	3 374	106	0
21	0.489 056	15 128	151	+4	0.783 376	8 022	242	−1	0.339 763	3 479	105	−1
22	0.504 184	14 970	158	−4	0.775 354	8 261	239	0	0.336 284	3 583	104	−2
23	0.519 154	14 809	161	−1	0.767 093	8 498	237	+2	0.332 701	3 685	102	−5
24	+0.533 963	+14 645	−164	+3	−0.758 595	+ 8 731	+233	−1	−0.329 016	+3 787	+102	−1
25	0.548 608	14 475	170	−4	0.749 864	8 963	232	+3	0.325 229	3 887	100	−1
26	0.563 083	14 302	173	−2	0.740 901	9 191	228	−2	0.321 342	3 987	100	+3
27	0.577 385	14 125	177	−2	0.731 710	9 417	226	0	0.317 355	4 085	98	+1
28	0.591 510	13 943	182	−5	0.722 293	9 641	224	+2	0.313 270	4 182	97	0
29	0.605 453	13 757	186	−4	0.712 652	9 861	220	−1	0.309 088	4 278	96	−1
30	+0.619 210	+13 567	−190	0	−0.702 791	+10 080	+219	+4	−0.304 810	+4 372	+ 94	−4
31	0.632 777	13 373	194	+3	0.692 711	10 295	215	−1	0.300 438	4 466	94	0
Febr. 1	0.646 150	13 175	198	+4	0.682 416	10 507	212	−3	0.295 972	4 557	91	−3
2	0.659 325	12 971	204	−3	0.671 909	10 716	209	−3	0.291 415	4 649	92	+4
3	0.672 296	12 764	207	0	0.661 193	10 922	206	−2	0.286 766	4 737	88	−3
4	0.685 060	12 553	211	+1	0.650 271	11 124	202	−2	0.282 029	4 825	88	+1
5	+0.697 613	+12 337	−216	−4	−0.639 147	+11 323	+199	+1	−0.277 204	+4 911	+ 86	+1
6	0.709 950	12 117	220	−5	0.627 824	11 519	196	+3	0.272 293	4 996	85	+3
7	0.722 067	11 894	223	−1	0.616 305	11 709	190	−3	0.267 297	5 078	82	−1
8	0.733 961	11 666	228	−3	0.604 596	11 897	188	+3	0.262 219	5 160	82	+4
9	0.745 627	+11 436	230	+2	0.592 699	+12 081	184	+4	0.257 059	+5 239	79	+1
10	+0.757 063		−235	−4	−0.580 618		+179	−1	−0.251 820		+ 78	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1940.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Febr. 10	+0.757 063	+11 201	−235	−4	−0.580 618	+12 260	+179	−1	−0.251 820	+5 317	+78	+1
11	0.768 264	10 963	238	−5	0.568 358	12 435	175	−2	0.246 503	5 393	76	−1
12	0.779 227	10 721	242	−5	0.555 923	12 606	171	−1	0.241 110	5 466	73	−4
13	0.789 948	10 478	243	+3	0.543 317	12 773	167	0	0.235 644	5 539	73	+4
14	0.800 426	10 230	248	−3	0.530 544	12 935	162	−2	0.230 105	5 610	71	+5
15	0.810 656	9 980	250	−2	0.517 609	13 094	159	+1	0.224 495	5 678	68	+1
16	+0.820 636	+9 727	−253	−3	−0.504 515	+13 247	+153	−4	−0.218 817	+5 745	+67	+3
17	0.830 363	9 471	256	−3	0.491 268	13 396	149	−3	0.213 072	5 810	65	+3
18	0.839 834	9 214	257	+3	0.477 872	13 542	146	+2	0.207 262	5 873	63	+1
19	0.849 048	8 953	261	−1	0.464 330	13 682	140	−3	0.201 389	5 934	61	0
20	0.858 001	8 692	261	+4	0.450 648	13 818	136	−3	0.195 455	5 993	59	0
21	0.866 693	8 426	266	−4	0.436 830	13 951	133	+2	0.189 462	6 051	58	+3
22	+0.875 119	+8 161	−265	+4	−0.422 879	+14 079	+128	−1	−0.183 411	+6 107	+56	0
23	0.883 280	7 892	269	−1	0.408 800	14 202	123	−5	0.177 304	6 160	53	−5
24	0.891 172	7 622	270	+1	0.394 598	14 323	121	0	0.171 144	6 212	52	−1
25	0.898 794	7 349	273	−1	0.380 275	14 438	115	−5	0.164 932	6 263	51	+4
26	0.906 143	7 075	274	+3	0.365 837	14 551	113	0	0.158 669	6 312	49	+3
27	0.913 218	6 798	277	+1	0.351 286	14 658	107	−5	0.152 357	6 358	46	−3
28	+0.920 016	+6 519	−279	+2	−0.336 628	+14 762	+104	−3	−0.145 999	+6 403	+45	−1
29	0.926 535	6 239	280	+5	0.321 866	14 861	99	−5	0.139 596	6 446	43	0
März 1	0.932 774	5 955	284	−1	0.307 005	14 956	95	−4	0.133 150	6 487	41	0
2	0.938 729	5 671	284	+3	0.292 049	15 046	90	−5	0.126 663	6 526	39	+1
3	0.944 400	5 383	288	−3	0.277 003	15 131	85	−4	0.120 137	6 563	37	+1
4	0.949 783	5 095	288	+2	0.261 872	15 213	82	+4	0.113 574	6 598	35	+1
5	+0.954 878	+4 805	−290	+2	−0.246 659	+15 289	+76	+1	−0.106 976	+6 631	+33	0
6	0.959 683	4 513	292	0	0.231 370	15 360	71	−3	0.100 345	6 661	30	−2
7	0.964 196	4 220	293	+1	0.216 010	15 426	66	−5	0.093 684	6 690	29	+3
8	0.968 416	3 926	294	+3	0.200 584	15 487	61	−5	0.086 994	6 717	27	+3
9	0.972 342	3 631	295	+2	0.185 097	15 543	56	−2	0.080 277	6 741	24	−1
10	0.975 973	3 335	296	0	0.169 554	15 595	52	+4	0.073 536	6 763	22	−2
11	+0.979 308	+3 037	−298	−4	−0.153 959	+15 641	+46	+2	−0.066 773	+6 783	+20	−2
12	0.982 345	2 741	296	+3	0.138 318	15 682	41	+2	0.059 990	6 801	18	−2
13	0.985 086	2 442	299	−4	0.122 636	15 719	37	+4	0.053 189	6 816	15	−3
14	0.987 528	2 144	298	−1	0.106 917	15 749	30	−3	0.046 373	6 831	15	+4
15	0.989 672	1 846	298	−1	0.091 168	15 776	27	+1	0.039 542	6 841	10	−4
16	0.991 518	1 547	299	−5	0.075 392	15 797	21	−2	0.032 701	6 851	10	+2
17	+0.993 065	+1 249	−298	−3	−0.059 595	+15 813	+16	−4	−0.025 850	+6 858	+7	+2
18	0.994 314	951	298	−4	0.043 782	15 824	11	−3	0.018 992	6 864	6	+4
19	0.995 265	653	298	−5	0.027 958	15 832	8	+2	0.012 128	6 866	2	−2
20	0.995 918	356	297	−2	−0.012 126	15 834	+2	−3	−0.005 262	6 868	+2	+2
21	0.996 274	+59	297	−1	+0.003 708	+15 831	−3	−5	+0.001 606	+6 867	−1	−1
22	+0.996 333		−295	+4	+0.019 539		−6	+1	+0.008 473		−3	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
	Mittleres Äquinoktium 1940.0											
1940												
März 22	+0.996 333	−236	−295	+4	+0.019 539	+15 825	−6	+1	+0.008 473	+6 864	−3	−2
23	0.996 097	533	297	−3	0.035 364	15 814	11	0	0.015 337	6 859	5	−2
24	0.995 564	828	295	+2	0.051 178	15 799	15	0	0.022 196	6 853	6	+3
25	0.994 736	1 122	294	+4	0.066 977	15 780	19	0	0.029 049	6 845	8	+3
26	0.993 614	1 417	295	−3	0.082 757	15 756	24	−4	0.035 894	6 834	11	−1
27	0.992 197	1 712	295	−5	0.098 513	15 727	29	−5	0.042 728	6 822	12	+2
28	+0.990 485	−2 005	−293	0	+0.114 240	+15 696	−31	+3	+0.049 550	+6 808	−14	+2
29	0.988 480	2 299	294	−3	0.129 936	15 658	38	−3	0.056 358	6 792	16	−1
30	0.986 181	2 592	293	0	0.145 594	15 617	41	+1	0.063 150	6 773	19	−5
31	0.983 589	2 883	291	+4	0.161 211	15 570	47	−2	0.069 923	6 753	20	−1
April 1	0.980 706	3 175	292	−2	0.176 781	15 519	51	+1	0.076 676	6 731	22	0
2	0.977 531	3 466	291	−2	0.192 300	15 464	55	+3	0.083 407	6 706	25	−2
3	+0.974 065	−3 754	−288	+3	+0.207 764	+15 403	−61	−3	+0.090 113	+6 680	−26	+2
4	0.970 311	4 043	289	−5	0.223 167	15 337	66	−4	0.096 793	6 652	28	+3
5	0.966 268	4 330	287	−4	0.238 504	15 267	70	+1	0.103 445	6 621	31	−1
6	0.961 938	4 615	285	−2	0.253 771	15 193	74	+5	0.110 066	6 589	32	0
7	0.957 323	4 899	284	−2	0.268 964	15 114	79	+3	0.116 655	6 554	35	−3
8	0.952 424	5 181	282	+1	0.284 078	15 029	85	−4	0.123 209	6 518	36	−2
9	+0.947 243	−5 460	−279	+4	+0.299 107	+14 940	−89	−3	+0.129 727	+6 479	−39	−5
10	0.941 783	5 739	279	−4	0.314 047	14 847	93	+1	0.136 206	6 438	41	−3
11	0.936 044	6 015	276	−3	0.328 894	14 749	98	+2	0.142 644	6 397	41	+4
12	0.930 029	6 288	273	−1	0.343 643	14 647	102	+4	0.149 041	6 352	45	−1
13	0.923 741	6 560	272	−5	0.358 290	14 540	107	+3	0.155 393	6 306	46	0
14	0.917 181	6 828	268	−1	0.372 830	14 430	110	+5	0.161 699	6 258	48	+1
15	+0.910 353	−7 095	−267	−4	+0.387 260	+14 314	−116	−1	+0.167 957	+6 209	−49	+3
16	0.903 258	7 358	263	+2	0.401 574	14 196	118	+4	0.174 166	6 157	52	−2
17	0.895 900	7 618	260	+3	0.415 770	14 073	123	−1	0.180 323	6 104	53	−1
18	0.888 282	7 876	258	−1	0.429 843	13 946	127	−3	0.186 427	6 049	55	−1
19	0.880 406	8 132	256	−4	0.443 789	13 816	130	0	0.192 476	5 993	56	+2
20	0.872 274	8 384	252	0	0.457 605	13 683	133	+4	0.198 469	5 935	58	+2
21	+0.863 890	−8 634	−250	−2	+0.471 288	+13 546	−137	+2	+0.204 404	+5 876	−59	+4
22	0.855 256	8 882	248	−3	0.484 834	13 405	141	0	0.210 280	5 815	61	+1
23	0.846 374	9 126	244	+1	0.498 239	13 262	143	+5	0.216 095	5 753	62	0
24	0.837 248	9 369	243	−5	0.511 501	13 115	147	+2	0.221 848	5 688	65	−5
25	0.827 879	9 609	240	−5	0.524 616	12 963	152	−3	0.227 536	5 623	65	−1
26	0.818 270	9 847	238	−4	0.537 579	12 810	153	+3	0.233 159	5 556	67	−2
27	+0.808 423	−10 081	−234	+2	+0.550 389	+12 651	−159	−5	+0.238 715	+5 487	−69	−4
28	0.798 342	10 313	232	0	0.563 040	12 489	162	−4	0.244 202	5 416	71	−3
29	0.788 029	10 542	229	−1	0.575 529	12 324	165	0	0.249 618	5 345	71	+4
30	0.777 487	10 769	227	−2	0.587 853	12 155	169	−1	0.254 963	5 271	74	+2
Mai 1	0.766 718	−10 991	222	+5	0.600 008	+11 982	173	−4	0.260 234	+5 197	74	+5
2	+0.755 727		−220	+3	+0.611 990		−177	−3	+0.265 431		−77	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit		Mittleres Äquinoktium 1940.0											
		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940													
Mai	2	+0.755 727	−11 211	−220	+3	+0.611 990	+11 805	−177	−3	+0.265 431	+5 120	− 77	−2
	3	0.744 516	11 427	216	+4	0.623 795	11 626	179	+4	0.270 551	5 041	79	−4
	4	0.733 089	11 640	213	+2	0.635 421	11 443	183	+3	0.275 592	4 962	79	+3
	5	0.721 449	11 850	210	0	0.646 864	11 256	187	−2	0.280 554	4 881	81	+3
	6	0.709 599	12 055	205	+5	0.658 120	11 065	191	−5	0.285 435	4 799	82	+3
	7	0.697 544	12 257	202	+2	0.669 185	10 872	193	−1	0.290 234	4 715	84	−1
	8	+0.685 287	−12 455	−198	−1	+0.680 057	+10 675	−197	−2	+0.294 949	+4 629	− 86	−4
	9	0.672 832	12 650	195	−4	0.690 732	10 475	200	−2	0.299 578	4 543	86	0
	10	0.660 182	12 839	189	+2	0.701 207	10 272	203	0	0.304 121	4 455	88	−2
	11	0.647 343	13 025	186	−1	0.711 479	10 067	205	+2	0.308 576	4 366	89	−3
	12	0.634 318	13 207	182	−2	0.721 546	9 858	209	−3	0.312 942	4 275	91	−4
	13	0.621 111	13 384	177	+3	0.731 404	9 647	211	−3	0.317 217	4 184	91	+2
	14	+0.607 727	−13 556	−172	+5	+0.741 051	+ 9 433	−214	−5	+0.321 401	+4 092	− 92	+4
	15	0.594 171	13 726	170	−3	0.750 484	9 217	216	−2	0.325 493	3 998	94	+1
	16	0.580 445	13 890	164	+2	0.759 701	9 000	217	+3	0.329 491	3 904	94	+4
	17	0.566 555	14 050	160	+3	0.768 701	8 779	221	−2	0.333 395	3 809	95	+2
	18	0.552 505	14 206	156	+3	0.777 480	8 558	221	+2	0.337 204	3 712	97	−3
	19	0.538 299	14 358	152	0	0.786 038	8 333	225	−3	0.340 916	3 615	97	−1
	20	+0.523 941	−14 507	−149	−3	+0.794 371	+ 8 108	−225	+4	+0.344 531	+3 517	− 98	+1
	21	0.509 434	14 650	143	+3	0.802 479	7 881	227	+4	0.348 048	3 419	98	+3
	22	0.494 784	14 791	141	−3	0.810 360	7 651	230	−3	0.351 467	3 318	101	−4
	23	0.479 993	14 928	137	−3	0.818 011	7 419	232	−5	0.354 785	3 218	100	+3
	24	0.465 065	15 060	132	+1	0.825 430	7 185	234	−3	0.358 003	3 117	101	+4
	25	0.450 005	15 189	129	0	0.832 615	6 951	234	+4	0.361 120	3 014	103	+1
	26	+0.434 816	−15 313	−124	+3	+0.839 566	+ 6 712	−239	−3	+0.364 134	+2 912	−102	+4
	27	0.419 503	15 433	120	+1	0.846 278	6 473	239	+3	0.367 046	2 807	105	−4
	28	0.404 070	15 550	117	−5	0.852 751	6 232	241	+5	0.369 853	2 702	105	−2
	29	0.388 520	15 662	112	−2	0.858 983	5 988	244	0	0.372 555	2 597	105	0
	30	0.372 858	15 768	106	+4	0.864 971	5 743	245	+1	0.375 152	2 490	107	−4
	31	0.357 090	15 872	104	−3	0.870 714	5 496	247	−1	0.377 642	2 383	107	−3
Juni	1	+0.341 218	−15 970	− 98	+2	+0.876 210	+ 5 247	−249	−4	+0.380 025	+2 275	−108	−4
	2	0.325 248	16 063	93	+4	0.881 457	4 996	251	−5	0.382 300	2 166	109	−4
	3	0.309 185	16 152	89	+1	0.886 453	4 744	252	−2	0.384 466	2 057	109	−1
	4	0.293 033	16 236	84	0	0.891 197	4 491	253	+1	0.386 523	1 947	110	−1
	5	0.276 797	16 316	80	−2	0.895 688	4 236	255	−1	0.388 470	1 837	110	+1
	6	0.260 481	16 389	73	+4	0.899 924	3 979	257	−3	0.390 307	1 725	112	−3
	7	+0.244 092	−16 459	− 70	−1	+0.903 903	+ 3 722	−257	+3	+0.392 032	+1 615	−110	+4
	8	0.227 633	16 522	63	+3	0.907 625	3 464	258	+5	0.393 647	1 502	113	−4
	9	0.211 111	16 582	60	−4	0.911 089	3 205	259	+4	0.395 149	1 390	112	0
	10	0.194 529	16 636	54	0	0.914 294	2 945	260	+2	0.396 539	1 278	112	+1
	11	0.177 893	−16 684	48	+5	0.917 239	+ 2 685	260	+3	0.397 817	+1 165	113	−2
	12	+0.161 209		− 44	+1	+0.919 924		−260	+3	+0.398 982		−113	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1940.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Juni 12	+0.161 209	−16 728	− 44	+1	+0.919 924	+2 425	−260	+3	+0.398 982	+1 052	−113	−2
13	0.144 481	16 768	40	−2	0.922 349	2 163	262	−3	0.400 034	939	113	−2
14	0.127 713	16 801	33	+4	0.924 512	1 903	260	+3	0.400 973	826	113	−1
15	0.110 912	16 832	31	−3	0.926 415	1 642	261	−1	0.401 799	713	113	−2
16	0.094 080	16 856	24	+4	0.928 057	1 380	262	−4	0.402 512	599	114	−5
17	0.077 224	16 877	21	0	0.929 437	1 120	260	+4	0.403 111	486	113	0
18	+0.060 347	−16 893	− 16	0	+0.930 557	+ 859	−261	+1	+0.403 597	+ 373	−113	+3
19	0.043 454	16 905	12	−1	0.931 416	597	262	−2	0.403 970	260	113	+2
20	0.026 549	16 912	7	−1	0.932 013	337	260	+3	0.404 230	146	114	−4
21	+0.009 637	16 916	− 4	−4	0.932 350	+ 75	262	−2	0.404 376	+ 32	114	−3
22	−0.007 279	16 914	+ 2	+1	0.932 425	− 186	261	−1	0.404 408	− 81	113	+2
23	0.024 193	16 908	6	0	0.932 239	448	262	−4	0.404 327	194	113	+3
24	−0.041 101	−16 898	+ 10	−3	+0.931 791	− 710	−262	−2	+0.404 133	− 308	−114	−2
25	0.057 999	16 883	15	−2	0.931 081	971	261	+4	0.403 825	422	114	−3
26	0.074 882	16 863	20	−1	0.930 110	1 232	261	+4	0.403 403	535	113	0
27	0.091 745	16 839	24	−3	0.928 878	1 494	262	−2	0.402 868	649	114	−3
28	0.108 584	16 810	29	−1	0.927 384	1 756	262	−4	0.402 219	762	113	0
29	0.125 394	16 776	34	+1	0.925 628	2 017	261	+1	0.401 457	875	113	0
30	−0.142 170	−16 737	+ 39	+3	+0.923 611	−2 277	−260	+5	+0.400 582	− 989	−114	−3
Juli 1	0.158 907	16 693	44	+2	0.921 334	2 538	261	+1	0.399 593	1 101	112	+3
2	0.175 600	16 645	48	−1	0.918 796	2 797	259	+3	0.398 492	1 214	113	+1
3	0.192 245	16 591	54	+1	0.915 999	3 057	260	−4	0.397 278	1 326	112	+2
4	0.208 836	16 533	58	−2	0.912 942	3 316	259	−4	0.395 952	1 438	112	0
5	0.225 369	16 469	64	+1	0.909 626	3 573	257	0	0.394 514	1 550	112	−2
6	−0.241 838	−16 400	+ 69	0	+0.906 053	−3 830	−257	−3	+0.392 964	−1 661	−111	+1
7	0.258 238	16 327	73	−4	0.902 223	4 085	255	−1	0.391 303	1 771	110	+2
8	0.274 565	16 248	79	0	0.898 138	4 340	255	−4	0.389 532	1 882	111	−3
9	0.290 813	16 165	83	+1	0.893 798	4 591	251	+4	0.387 650	1 991	109	+2
10	0.306 978	16 076	89	+5	0.889 207	4 843	252	−2	0.385 659	2 099	108	+2
11	0.323 054	15 984	92	+1	0.884 364	5 091	248	+4	0.383 560	2 208	109	−3
12	−0.339 038	−15 886	+ 98	+5	+0.879 273	−5 339	−248	−1	+0.381 352	−2 315	−107	+2
13	0.354 924	15 785	101	+1	0.873 934	5 584	245	+3	0.379 037	2 421	106	+5
14	0.370 709	15 679	106	+1	0.868 350	5 827	243	+3	0.376 616	2 527	106	+3
15	0.386 388	15 570	109	−2	0.862 523	6 069	242	−2	0.374 089	2 631	104	+4
16	0.401 958	15 455	115	+4	0.856 454	6 309	240	−4	0.371 458	2 736	105	−4
17	0.417 413	15 338	117	−3	0.850 145	6 547	238	−4	0.368 722	2 840	104	−4
18	−0.432 751	−15 216	+122	−1	+0.843 598	−6 784	−237	−5	+0.365 882	−2 942	−102	+2
19	0.447 967	15 090	126	−1	0.836 814	7 018	234	+1	0.362 940	3 044	102	+2
20	0.463 057	14 961	129	−4	0.829 796	7 250	232	+2	0.359 896	3 145	101	+3
21	0.478 018	14 827	134	0	0.822 546	7 482	232	−5	0.356 751	3 245	100	+3
22	0.492 845	−14 689	138	+1	0.815 064	−7 711	229	−2	0.353 506	−3 345	100	−1
23	−0.507 534		+142	+1	+0.807 353		−227	−2	+0.350 161		− 99	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1940.0 X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Juli 23	−0.507 534	−14 547	+142	+1	+0.807 353	−7 938	−227	−2	+0.350 161	−3 444	−99	+1
24	0.522 081	14 402	145	−2	0.799 415	8 164	226	−5	0.346 717	3 541	97	+5
25	0.536 483	14 251	151	+4	0.791 251	8 388	224	−4	0.343 176	3 638	97	+1
26	0.550 734	14 097	154	+1	0.782 863	8 609	221	+1	0.339 538	3 735	97	−3
27	0.564 831	13 939	158	0	0.774 254	8 828	219	+1	0.335 803	3 829	94	+2
28	0.578 770	13 776	163	+2	0.765 426	9 046	218	−3	0.331 974	3 924	95	−4
29	−0.592 546	−13 610	+166	−2	+0.756 380	−9 261	−215	0	+0.328 050	−4 017	−93	−2
30	0.606 156	13 439	171	−1	0.747 119	9 473	212	+3	0.324 033	4 109	92	−1
31	0.619 595	13 264	175	−2	0.737 646	9 684	211	0	0.319 924	4 200	91	−2
Aug. 1	0.632 859	13 085	179	−3	0.727 962	9 891	207	+4	0.315 724	4 290	90	−3
2	0.645 944	12 902	183	−3	0.718 071	10 096	205	+1	0.311 434	4 379	89	−3
3	0.658 846	12 714	188	0	0.707 975	10 298	202	−1	0.307 055	4 466	87	+1
4	−0.671 560	−12 523	+191	−1	+0.697 677	−10 497	−199	−3	+0.302 589	−4 552	−86	−1
5	0.684 083	12 327	196	+4	0.687 180	10 693	196	−4	0.298 037	4 637	85	−4
6	0.696 410	12 128	199	+3	0.676 487	10 886	193	−2	0.293 400	4 721	84	−4
7	0.708 538	11 925	203	+4	0.665 601	11 074	188	+5	0.288 679	4 802	81	+2
8	0.720 463	11 718	207	+4	0.654 527	11 259	185	+4	0.283 877	4 883	81	−1
9	0.732 181	11 509	209	−3	0.643 268	11 442	183	−2	0.278 994	4 962	79	+2
10	−0.743 690	−11 297	+212	−5	+0.631 826	−11 620	−178	+1	+0.274 032	−5 039	−77	+5
11	0.754 987	11 081	216	0	0.620 206	11 795	175	0	0.268 993	5 115	76	+4
12	0.766 068	10 862	219	+2	0.608 411	11 967	172	−1	0.263 878	5 190	75	+1
13	0.776 930	10 641	221	−1	0.596 444	12 135	168	+3	0.258 688	5 262	72	+4
14	0.787 571	10 417	224	0	0.584 309	12 299	164	+4	0.253 426	5 335	73	−4
15	0.797 988	10 190	227	+2	0.572 010	12 461	162	−3	0.248 091	5 405	70	+1
16	−0.808 178	−9 960	+230	+3	+0.559 549	−12 620	−159	−5	+0.242 686	−5 473	−68	+3
17	0.818 138	9 728	232	0	0.546 929	12 774	154	0	0.237 213	5 541	68	−2
18	0.827 866	9 493	235	+1	0.534 155	12 926	152	−4	0.231 672	5 607	66	0
19	0.837 359	9 255	238	+2	0.521 229	13 075	149	−4	0.226 065	5 671	64	+3
20	0.846 614	9 015	240	0	0.508 154	13 219	144	+2	0.220 394	5 734	63	+2
21	0.855 629	8 771	244	+2	0.494 935	13 361	142	−1	0.214 660	5 795	61	+2
22	−0.864 400	−8 526	+245	−4	+0.481 574	−13 499	−138	+1	+0.208 865	−5 856	−61	−3
23	0.872 926	8 277	249	−1	0.468 075	13 633	134	+2	0.203 009	5 913	57	+4
24	0.881 203	8 026	251	−2	0.454 442	13 765	132	−4	0.197 096	5 971	58	−2
25	0.889 229	7 772	254	0	0.440 677	13 892	127	+1	0.191 125	6 025	54	+3
26	0.897 001	7 515	257	+1	0.426 785	14 016	124	+2	0.185 100	6 079	54	−2
27	0.904 516	7 257	258	−4	0.412 769	14 135	119	+5	0.179 021	6 131	52	−3
28	−0.911 773	−6 994	+263	+3	+0.398 634	−14 252	−117	0	+0.172 890	−6 181	−50	−2
29	0.918 767	6 730	264	−3	0.384 382	14 363	111	+4	0.166 709	6 230	49	−4
30	0.925 497	6 464	266	−5	0.370 019	14 472	109	−2	0.160 479	6 276	46	+1
31	0.931 961	6 194	270	+1	0.355 547	14 575	103	+3	0.154 203	6 321	45	−1
Sept. 1	0.938 155	−5 922	272	0	0.340 972	−14 675	100	+1	0.147 882	−6 364	43	−2
2	−0.944 077		+273	−5	+0.326 297		−94	+5	+0.141 518		−41	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1940.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Sept. 2	−0.944 077	−5 649	+273	−5	+0.326 297	−14 769	−94	+5	+0.141 518	−6 405	−41	−2
3	0.949 726	5 373	276	−2	0.311 528	14 859	90	+2	0.135 113	6 444	39	−1
4	0.955 099	5 095	278	−1	0.296 669	14 945	86	−1	0.128 669	6 481	37	0
5	0.960 194	4 817	278	−5	0.281 724	15 025	80	+1	0.122 188	6 516	35	0
6	0.965 011	4 536	281	0	0.266 699	15 102	77	−5	0.115 672	6 549	33	0
7	0.969 547	4 254	282	0	0.251 597	15 173	71	−2	0.109 123	6 580	31	−2
8	−0.973 801	−3 972	+282	−4	+0.236 424	−15 240	−67	−3	+0.102 543	−6 610	−30	−4
9	0.977 773	3 688	284	−1	0.221 184	15 303	63	−4	0.095 933	6 637	27	+2
10	0.981 461	3 404	284	−2	0.205 881	15 361	58	0	0.089 296	6 662	25	+5
11	0.984 865	3 118	286	+2	0.190 520	15 414	53	+3	0.082 634	6 685	23	+4
12	0.987 983	2 832	286	0	0.175 106	15 464	50	−2	0.075 949	6 707	22	−1
13	0.990 815	2 545	287	+1	0.159 642	15 510	46	−2	0.069 242	6 727	20	−3
14	−0.993 360	−2 257	+288	+1	+0.144 132	−15 550	−40	+4	+0.062 515	−6 745	−18	−3
15	0.995 617	1 969	288	−2	0.128 582	15 587	37	+1	0.055 770	6 761	16	−1
16	0.997 586	1 679	290	+1	0.112 995	15 620	33	0	0.049 009	6 775	14	−1
17	0.999 265	1 390	289	−4	0.097 375	15 648	28	+3	0.042 234	6 788	13	−2
18	1.000 655	1 099	291	+1	0.081 727	15 672	24	+2	0.035 446	6 798	10	+3
19	1.001 754	808	291	+1	0.066 055	15 692	20	0	0.028 648	6 806	8	+4
20	−1.002 562	−516	+292	+4	+0.050 363	−15 708	−16	0	+0.021 842	−6 813	−7	−1
21	1.003 078	−223	293	+5	0.034 655	15 718	10	+4	0.015 029	6 818	5	−2
22	1.003 301	+70	293	+1	0.018 937	15 726	8	−3	0.008 211	6 821	−3	−1
23	1.003 231	363	293	−4	+0.003 211	15 727	−1	+3	+0.001 390	6 821	0	+2
24	1.002 868	657	294	−4	−0.012 516	15 726	+1	−3	−0.005 431	6 821	0	−3
25	1.002 211	951	294	−5	0.028 242	15 719	7	+2	0.012 252	6 817	+4	+2
26	−1.001 260	+1 246	+295	−3	−0.043 961	−15 707	−12	+4	−0.019 069	−6 812	+5	−1
27	1.000 014	1 541	295	−4	0.059 668	15 691	16	0	0.025 881	6 805	7	−4
28	0.998 473	1 835	294	−5	0.075 359	15 671	20	−3	0.032 686	6 796	9	−5
29	0.996 638	2 131	296	+4	0.091 030	15 644	27	+4	0.039 482	6 785	11	−4
30	0.994 507	2 426	295	+5	0.106 674	15 613	31	0	0.046 267	6 771	14	+1
Okt. 1	0.992 081	2 721	295	+5	0.122 287	15 578	35	−3	0.053 038	6 755	16	+1
2	−0.989 360	+3 014	+293	0	−0.137 865	−15 536	+42	+4	−0.059 793	−6 738	+17	−2
3	0.986 346	3 308	294	+5	0.153 401	15 490	46	+3	0.066 531	6 717	21	+3
4	0.983 038	3 600	292	+1	0.168 891	15 438	52	+3	0.073 248	6 696	21	−2
5	0.979 438	3 891	291	−1	0.184 329	15 383	55	−4	0.079 944	6 671	25	+5
6	0.975 547	4 180	289	−5	0.199 712	15 322	61	−1	0.086 615	6 645	26	+3
7	0.971 367	4 468	288	−4	0.215 034	15 257	65	0	0.093 260	6 617	28	+3
8	−0.966 899	+4 755	+287	−1	−0.230 291	−15 186	+71	+4	−0.099 877	−6 586	+31	+5
9	0.962 144	5 040	285	−1	0.245 477	15 112	74	−2	0.106 463	6 555	31	−2
10	0.957 104	5 324	284	0	0.260 589	15 034	78	−5	0.113 018	6 520	35	+2
11	0.951 780	5 606	282	−1	0.275 623	14 951	83	−1	0.119 538	6 485	35	−4
12	0.946 174	+5 886	280	−2	0.290 574	−14 863	88	+3	0.126 023	−6 447	38	−1
13	−0.940 288		+280	+2	−0.305 437		+91	0	−0.132 470		+40	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1940.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Okt. 13	−0.940 288	+ 6 166	+280	+2	−0.305 437	−14 772	+ 91	0	−0.132 470	−6 407	+ 40	0
14	0.934 122	6 442	276	−4	0.320 209	14 676	96	+1	0.138 877	6 366	41	−4
15	0.927 680	6 718	276	+2	0.334 885	14 576	100	−1	0.145 243	6 323	43	−3
16	0.920 962	6 993	275	+5	0.349 461	14 473	103	−4	0.151 566	6 277	46	0
17	0.913 969	7 264	271	−2	0.363 934	14 364	109	+2	0.157 843	6 231	46	−5
18	0.906 705	7 535	271	+1	0.378 298	14 252	112	0	0.164 074	6 182	49	0
19	−0.899 170	+ 7 803	+268	−2	−0.392 550	−14 135	+117	+2	−0.170 256	−6 131	+ 51	+3
20	0.891 367	8 070	267	+1	0.406 685	14 015	120	−1	0.176 387	6 079	52	+1
21	0.883 297	8 335	265	+1	0.420 700	13 890	125	+1	0.182 466	6 024	55	+5
22	0.874 962	8 598	263	0	0.434 590	13 761	129	+2	0.188 490	5 968	56	+1
23	0.866 364	8 859	261	−2	0.448 351	13 627	134	+4	0.194 458	5 910	58	−1
24	0.857 505	9 117	258	−5	0.461 978	13 490	137	−1	0.200 368	5 851	59	−4
25	−0.848 388	+ 9 374	+257	0	−0.475 468	−13 348	+142	−1	−0.206 219	−5 789	+ 62	+2
26	0.839 014	9 628	254	0	0.488 816	13 202	146	−1	0.212 008	5 725	64	+5
27	0.829 386	9 881	253	+4	0.502 018	13 051	151	+2	0.217 733	5 659	66	+4
28	0.819 505	10 129	248	−4	0.515 069	12 895	156	+4	0.223 392	5 592	67	−2
29	0.809 376	10 376	247	0	0.527 964	12 736	159	−1	0.228 984	5 523	69	−5
30	0.799 000	10 619	243	−3	0.540 700	12 572	164	+1	0.234 507	5 452	71	−4
31	−0.788 381	+10 859	+240	−3	−0.553 272	−12 403	+169	+4	−0.239 959	−5 379	+ 73	−2
Nov. 1	0.777 522	11 095	236	−2	0.565 675	12 230	173	+3	0.245 338	5 304	75	0
2	0.766 427	11 329	234	+4	0.577 905	12 054	176	−1	0.250 642	5 228	76	0
3	0.755 098	11 558	229	0	0.589 959	11 873	181	+1	0.255 870	5 149	79	+5
4	0.743 540	11 783	225	−2	0.601 832	11 689	184	−1	0.261 019	5 069	80	+2
5	0.731 757	12 005	222	+1	0.613 521	11 501	188	+1	0.266 088	4 989	80	−4
6	−0.719 752	+12 223	+218	+1	−0.625 022	−11 310	+191	+2	−0.271 077	−4 905	+ 84	+4
7	0.707 529	12 437	214	0	0.636 332	11 115	195	+5	0.275 982	4 821	84	0
8	0.695 092	12 647	210	+1	0.647 447	10 917	198	+5	0.280 803	4 736	85	−1
9	0.682 445	12 854	207	+5	0.658 364	10 716	201	+4	0.285 539	4 648	88	+5
10	0.669 591	13 057	203	+4	0.669 080	10 512	204	+3	0.290 187	4 560	88	+2
11	0.656 534	13 255	198	−1	0.679 592	10 304	208	+5	0.294 747	4 470	90	+4
12	−0.643 279	+13 451	+196	+3	−0.689 896	−10 094	+210	−1	−0.299 217	−4 378	+ 92	+5
13	0.629 828	13 641	190	−3	0.699 990	9 881	213	−4	0.303 595	4 286	92	−2
14	0.616 187	13 829	188	+2	0.709 871	9 665	216	−5	0.307 881	4 193	93	−3
15	0.602 358	14 012	183	−1	0.719 536	9 446	219	−4	0.312 074	4 097	96	+4
16	0.588 346	14 192	180	+1	0.728 982	9 224	222	−3	0.316 171	4 001	96	+1
17	0.574 154	14 367	175	−3	0.738 206	8 999	225	−3	0.320 172	3 903	98	+3
18	−0.559 787	+14 538	+171	−2	−0.747 205	− 8 772	+227	−5	−0.324 075	−3 804	+ 99	0
19	0.545 249	14 707	169	+4	0.755 977	8 542	230	−2	0.327 879	3 705	99	−4
20	0.530 542	14 869	162	−4	0.764 519	8 308	234	+5	0.331 584	3 603	102	+2
21	0.515 673	15 029	160	+3	0.772 827	8 072	236	+4	0.335 187	3 500	103	+2
22	0.500 644	+15 185	+156	+4	0.780 899	− 7 833	239	+4	0.338 687	−3 397	103	−3
23	−0.485 459		+150	−4	−0.788 732		+242	+4	−0.342 084		+105	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1940.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Nov. 23	−0.485 459	+15 335	+150	−4	−0.788 732	−7 591	+242	+4	−0.342 084	−3 292	+105	0
24	0.470 124	15 481	146	−3	0.796 323	7 346	245	+2	0.345 376	3 185	107	+2
25	0.454 643	15 623	142	+1	0.803 669	7 100	246	−4	0.348 561	3 079	106	−4
26	0.439 020	15 760	137	+3	0.810 769	6 849	251	+4	0.351 640	2 969	110	+4
27	0.423 260	15 892	132	+3	0.817 618	6 596	253	+4	0.354 609	2 861	108	−4
28	0.407 368	16 019	127	+3	0.824 214	6 341	255	+3	0.357 470	2 749	112	+4
29	−0.391 349	+16 141	+122	+1	−0.830 555	−6 083	+258	+4	−0.360 219	−2 638	+111	−2
30	0.375 208	16 256	115	−4	0.836 638	5 823	260	+2	0.362 857	2 526	112	−1
Dez. 1	0.358 952	16 368	112	+2	0.842 461	5 562	261	−1	0.365 383	2 412	114	+4
2	0.342 584	16 472	104	−4	0.848 023	5 298	264	+4	0.367 795	2 298	114	+4
3	0.326 112	16 573	101	+4	0.853 321	5 033	265	+4	0.370 093	2 183	115	+5
4	0.309 539	16 668	95	+3	0.858 354	4 766	267	+5	0.372 276	2 067	116	+4
5	−0.292 871	+16 757	+ 89	−2	−0.863 120	−4 498	+268	+2	−0.374 343	−1 952	+115	−2
6	0.276 114	16 840	83	−4	0.867 618	4 230	268	−2	0.376 295	1 835	117	+2
7	0.259 274	16 920	80	+4	0.871 848	3 959	271	+4	0.378 130	1 717	118	+4
8	0.242 354	16 993	73	0	0.875 807	3 688	271	+2	0.379 847	1 601	116	−3
9	0.225 361	17 062	69	+1	0.879 495	3 416	272	+2	0.381 448	1 482	119	+5
10	0.208 299	17 124	62	−3	0.882 911	3 142	274	+4	0.382 930	1 363	119	+4
11	−0.191 175	+17 183	+ 59	+4	−0.886 053	−2 869	+273	−2	−0.384 293	−1 245	+118	−2
12	0.173 992	17 236	53	+2	0.888 922	2 594	275	0	0.385 538	1 125	120	+1
13	0.156 756	17 284	48	0	0.891 516	2 319	275	−1	0.386 663	1 006	119	−4
14	0.139 472	17 326	42	−4	0.893 835	2 042	277	+2	0.387 669	886	120	−4
15	0.122 146	17 364	38	+1	0.895 877	1 766	276	−5	0.388 555	766	120	−5
16	0.104 782	17 397	33	+3	0.897 643	1 489	277	−5	0.389 321	646	120	−5
17	−0.087 385	+17 425	+ 28	+2	−0.899 132	−1 211	+278	−4	−0.389 967	− 525	+121	−1
18	0.069 960	17 447	22	−1	0.900 343	933	278	−4	0.390 492	404	121	−1
19	0.052 513	17 465	18	+3	0.901 276	654	279	0	0.390 896	283	121	−1
20	0.035 048	17 478	13	+3	0.901 930	374	280	+4	0.391 179	162	121	−1
21	0.017 570	17 484	6	−3	0.902 304	− 94	280	+4	0.391 341	− 40	122	+3
22	−0.000 086	17 486	+ 2	+1	0.902 398	+ 187	281	+5	0.391 381	+ 82	122	+3
23	+0.017 400	+17 483	− 3	+3	−0.902 211	+ 468	+281	+1	−0.391 299	+ 204	+122	0
24	0.034 883	17 473	10	−2	0.901 743	749	281	−2	0.391 095	325	121	−5
25	0.052 356	17 458	15	+1	0.900 994	1 030	281	−4	0.390 770	447	122	−1
26	0.069 814	17 438	20	+4	0.899 964	1 311	281	−2	0.390 323	570	123	+3
27	0.087 252	17 411	27	−1	0.898 653	1 593	282	+4	0.389 753	691	121	−4
28	0.104 663	17 379	32	−1	0.897 060	1 874	281	+2	0.389 062	812	121	−4
29	+0.122 042	+17 340	− 39	−5	−0.895 186	+2 154	+280	−3	−0.388 250	+ 934	+122	+3
30	0.139 382	17 296	44	0	0.893 032	2 433	279	−5	0.387 316	1 055	121	+3
31	0.156 678	+17 247	49	+4	0.890 599	+2 711	278	−3	0.386 261	+1 176	121	+4
32	+0.173 925		− 56	−1	−0.887 888		+278	+3	−0.385 085		+120	+2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Frühlingsäquinoktium	20. März	$18^h\ 24^m$	Herbstäquinoktium	23. Sept.	$4^h\ 46^m$
Sommersolstitium	21. Juni	13 37	Wintersolstitium	21. Dez.	23 55

Erdnähe 2. Jan. 6^h
Erdferne 4. Juli 10

Tag		0h Welt-Zeit			
		Aberration	Parallaxe	Mittlere Länge $L_\odot$	Mittlere Anomalie $M_\odot$
1940		"	"	°	°
Jan.	−4	20.82	8.95	274.5832	352.67
	+6	20.82	8.95	284.4397	2.53
	16	20.81	8.95	294.2962	12.39
	26	20.79	8.94	304.1527	22.24
Febr.	5	20.76	8.93	314.0091	32.10
	15	20.73	8.91	323.8656	41.95
	25	20.68	8.89	333.7221	51.81
März	6	20.63	8.87	343.5785	61.67
	16	20.57	8.84	353.4350	71.52
	26	20.52	8.82	3.2915	81.38
April	5	20.46	8.79	13.1480	91.23
	15	20.40	8.77	23.0044	101.09
	25	20.34	8.75	32.8609	110.95
Mai	5	20.29	8.72	42.7174	120.80
	15	20.25	8.70	52.5739	130.66
	25	20.21	8.69	62.4303	140.51
Juni	4	20.17	8.67	72.2868	150.37
	14	20.15	8.66	82.1433	160.23
	24	20.14	8.66	91.9998	170.08
Juli	4	20.13	8.65	101.8562	179.94
	14	20.14	8.66	111.7127	189.79
	24	20.15	8.66	121.5692	199.65
Aug.	3	20.17	8.67	131.4256	209.51
	13	20.21	8.69	141.2821	219.36
	23	20.25	8.70	151.1386	229.22
Sept.	2	20.29	8.72	160.9951	239.07
	12	20.34	8.75	170.8515	248.93
	22	20.40	8.77	180.7080	258.79
Okt.	2	20.46	8.79	190.5645	268.64
	12	20.52	8.82	200.4210	278.50
	22	20.57	8.84	210.2774	288.35
Nov.	1	20.63	8.87	220.1339	298.21
	11	20.68	8.89	229.9904	308.07
	21	20.73	8.91	239.8469	317.92
Dez.	1	20.76	8.93	249.7033	327.78
	11	20.79	8.94	259.5598	337.63
	21	20.81	8.95	269.4163	347.49
	31	20.82	8.95	279.2727	357.35
	41	20.82	8.95	289.1292	7.20

Tag		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite	Alter
		0h Welt-Zeit										
1940		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Jan.	0	10 38 9	54 18	+ 4 38.5	4 37.7	59 44.5	18.7	16 18.2	5.1	159.354	−3.692	20.1
	1	11 32 27	53 34	+ 0 0.8	4 34.2	59 25.8	24.0	16 13.1	6.6	173.670	−2.724	21.1
	2	12 26 1	53 27	− 4 33.4	4 15.6	59 1.8	27.1	16 6.5	7.3	187.775	−1.602	22.1
	3	13 19 28	53 47	− 8 49.0	3 43.7	58 34.7	28.6	15 59.2	7.8	201.660	−0.402	23.1
	4	14 13 15	54 21	−12 32.7	3 0.3	58 6.1	29.1	15 51.4	8.0	215.331	+0.803	24.1
	5	15 7 36	54 52	−15 33.0	2 7.9	57 37.0	29.3	15 43.4	8.0	228.803	+1.944	25.1
	6	16 2 28	55 2	−17 40.9	1 9.6	57 7.7	29.2	15 35.4	7.9	242.090	+2.961	26.1
	7	16 57 30	54 37	−18 50.5	0 9.2	56 38.5	28.9	15 27.5	7.9	255.200	+3.804	27.1
	8	17 52 7	53 33	−18 59.7	0 49.1	56 9.6	28.2	15 19.6	7.7	268.133	+4.437	28.1
	9	18 45 40	51 58	−18 10.6	1 41.4	55 41.4	26.8	15 11.9	7.3	280.881	+4.837	29.1
	10	19 37 38	50 4	−16 29.2	2 25.5	55 14.6	24.2	15 4.6	6.6	293.437	+4.994	0.4
	11	20 27 42	48 12	−14 3.7	3 0.0	54 50.4	20.4	14 58.0	5.5	305.797	+4.912	1.4
	12	21 15 54	46 34	−11 3.7	3 24.9	54 30.0	15.0	14 52.5	4.1	317.970	+4.605	2.4
	13	22 2 28	45 22	− 7 38.8	3 41.0	54 15.0	8.1	14 48.4	2.2	329.975	+4.096	3.4
	14	22 47 50	44 46	− 3 57.8	3 48.9	54 6.9	0.1	14 46.2	0.0	341.850	+3.412	4.4
	15	23 32 36	44 48	− 0 8.9	3 49.3	54 7.0	9.5	14 46.2	2.6	353.652	+2.583	5.4
	16	0 17 24	45 30	+ 3 40.4	3 42.3	54 16.5	19.5	14 48.8	5.3	5.448	+1.643	6.4
	17	1 2 54	46 56	+ 7 22.7	3 27.7	54 36.0	29.8	14 54.1	8.1	17.321	+0.623	7.4
	18	1 49 50	48 59	+10 50.4	3 4.0	55 5.8	39.4	15 2.2	10.8	29.363	−0.438	8.4
	19	2 38 49	51 33	+13 54.4	2 30.1	55 45.2	47.7	15 13.0	13.0	41.665	−1.502	9.4
	20	3 30 22	54 23	+16 24.5	1 44.6	56 32.9	53.4	15 26.0	14.5	54.318	−2.522	10.4
	21	4 24 45	57 2	+18 9.1	0 47.3	57 26.3	55.5	15 40.5	15.1	67.395	−3.443	11.4
	22	5 21 47	59 8	+18 56.4	0 19.7	58 21.8	53.0	15 55.6	14.5	80.945	−4.205	12.4
	23	6 20 55	60 15	+18 36.7	1 31.4	59 14.8	45.3	16 10.1	12.3	94.973	−4.743	13.4
	24	7 21 10	60 17	+17 5.3	2 40.5	60 0.1	32.7	16 22.4	8.9	109.436	−4.998	14.4
	25	8 21 27	59 25	+14 24.8	3 39.2	60 32.8	16.8	16 31.3	4.6	124.235	−4.928	15.4
	26	9 20 52	58 6	+10 45.6	4 20.9	60 49.6	0.5	16 35.9	0.1	139.228	−4.521	16.4
	27	10 18 58	56 44	+ 6 24.7	4 43.0	60 49.1	16.7	16 35.8	4.6	154.252	−3.800	17.4
	28	11 15 42	55 38	+ 1 41.7	4 44.7	60 32.4	29.6	16 31.2	8.1	169.154	−2.823	18.4
	29	12 11 20	54 57	− 3 3.0	4 28.4	60 2.8	38.5	16 23.1	10.4	183.812	−1.672	19.4
	30	13 6 17	54 41	− 7 31.4	3 56.8	59 24.3	43.0	16 12.7	11.8	198.150	−0.436	20.4
	31	14 0 58	54 40	−11 28.2	3 13.5	58 41.3	43.9	16 0.9	11.9	212.140	+0.798	21.4
Febr.	1	14 55 38	54 42	−14 41.7	2 21.6	57 57.4	42.1	15 49.0	11.5	225.788	+1.958	22.4
	2	15 50 20	54 34	−17 3.3	1 24.5	57 15.3	38.8	15 37.5	10.6	239.123	+2.982	23.4
	3	16 44 54	54 3	−18 27.8	0 25.7	56 36.5	34.6	15 26.9	9.4	252.183	+3.828	24.4
	4	17 38 57	53 6	−18 53.5	0 31.6	56 1.9	30.3	15 17.5	8.2	265.008	+4.463	25.4
	5	18 32 3	51 44	−18 21.9	1 24.2	55 31.6	26.1	15 9.3	7.2	277.630	+4.868	26.4
	6	19 23 47	50 8	−16 57.7	2 9.8	55 5.5	22.1	15 2.1	6.0	290.077	+5.034	27.4
	7	20 13 55	48 27	−14 47.9	2 47.2	54 43.4	18.0	14 56.1	4.9	302.366	+4.964	28.4
	8	21 2 22	46 57	−12 0.7	3 15.4	54 25.4	13.8	14 51.2	3.7	314.513	+4.667	29.4
	9	21 49 19	45 45	− 8 45.3	3 34.7	54 11.6	9.1	14 47.5	2.5	326.530	+4.165	0.7
	10	22 35 4		− 5 10.6		54 2.5		14 45.0		338.439	+3.482	1.7

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Jan. 0	10 47 46	142	+ 3 50.2	−11.9	59.7	4 13.0	2.19	22 52	3.2	10 38	1.2
1	11 43 50	139	− 0 58.1	−12.0	59.4	5 5.0	2.15	— —	—	11 7	1.2
2	12 39 14	138	− 5 39.0	−11.3	58.9	5 56.3	2.13	0 7	3.1	11 35	1.2
3	13 34 39	139	− 9 56.1	−10.0	58.4	6 47.6	2.15	1 21	3.0	12 5	1.3
4	14 30 31	141	−13 35.4	− 8.2	57.9	7 39.4	2.18	2 33	2.9	12 39	1.5
5	15 27 3	142	−16 24.8	− 5.9	57.4	8 31.9	2.20	3 42	2.8	13 17	1.7
6	16 24 4	143	−18 15.4	− 3.3	56.9	9 24.8	2.21	4 47	2.6	14 0	1.9
7	17 21 1	142	−19 1.8	− 0.6	56.4	10 17.6	2.19	5 45	2.3	14 49	2.2
8	18 17 12	139	−18 43.8	+ 2.0	55.9	11 9.7	2.15	6 37	2.0	15 44	2.4
9	19 11 53	134	−17 26.0	+ 4.4	55.5	12 0.3	2.07	7 21	1.7	16 43	2.5
10	20 4 37	129	−15 16.4	+ 6.3	55.0	12 49.0	1.98	7 59	1.4	17 45	2.6
11	20 55 13	124	−12 25.4	+ 7.8	54.6	13 35.5	1.90	8 31	1.2	18 47	2.6
12	21 43 53	120	− 9 3.7	+ 8.9	54.3	14 20.1	1.83	8 59	1.1	19 49	2.6
13	22 31 2	116	− 5 21.5	+ 9.6	54.2	15 3.2	1.78	9 24	1.0	20 51	2.6
14	23 17 15	115	− 1 28.0	+ 9.9	54.1	15 45.4	1.75	9 47	1.0	21 53	2.6
15	0 3 16	115	+ 2 28.7	+ 9.8	54.2	16 27.3	1.76	10 10	1.0	22 54	2.6
16	0 49 50	118	+ 6 20.5	+ 9.5	54.5	17 9.8	1.79	10 33	1.0	23 57	2.6
17	1 37 44	122	+ 9 59.4	+ 8.7	55.0	17 53.7	1.87	10 58	1.1	— —	—
18	2 27 43	128	+13 16.0	+ 7.6	55.6	18 39.6	1.97	11 26	1.2	1 0	2.6
19	3 20 26	136	+15 59.3	+ 6.1	56.4	19 28.2	2.09	11 58	1.5	2 3	2.7
20	4 16 15	143	+17 56.5	+ 3.7	57.3	20 20.0	2.22	12 37	1.8	3 7	2.6
21	5 15 7	151	+18 54.2	+ 1.0	58.3	21 14.7	2.34	13 23	2.1	4 9	2.5
22	6 16 26	155	+18 40.6	− 2.2	59.2	22 12.0	2.42	14 18	2.5	5 8	2.4
23	7 19 5	157	+17 9.6	− 5.4	60.0	23 10.5	2.45	15 24	2.9	6 3	2.1
24	— — —	—	— —	—	—	— —	—	16 36	3.1	6 50	1.8
25	8 21 49	156	+14 23.5	− 8.3	60.6	0 9.1	2.43	17 54	3.3	7 31	1.6
26	9 23 36	153	+10 34.3	−10.6	60.8	1 6.8	2.38	19 14	3.3	8 7	1.4
27	10 23 52	150	+ 6 1.1	−12.0	60.8	2 3.0	2.31	20 34	3.3	8 39	1.3
28	11 22 37	145	+ 1 6.3	−12.4	60.5	2 57.6	2.25	21 52	3.2	9 9	1.2
29	12 20 11	143	− 3 47.6	−11.9	60.0	3 51.1	2.21	23 8	3.1	9 39	1.3
30	13 17 5	142	− 8 21.0	−10.7	59.3	4 43.9	2.19	— —	—	10 10	1.3
31	14 13 44	142	−12 17.7	− 8.9	58.5	5 36.5	2.19	0 22	3.0	10 43	1.4
Febr. 1	15 10 24	142	−15 25.3	− 6.7	57.8	6 29.1	2.19	1 33	2.9	11 19	1.6
2	16 7 6	142	−17 35.4	− 4.1	57.0	7 21.7	2.19	2 40	2.6	12 0	1.8
3	17 3 31	140	−18 43.2	− 1.5	56.4	8 14.0	2.17	3 40	2.4	12 47	2.1
4	17 59 13	138	−18 48.0	+ 1.1	55.8	9 5.6	2.13	4 33	2.1	13 39	2.3
5	18 53 39	134	−17 53.1	+ 3.5	55.3	9 56.0	2.07	5 19	1.8	14 36	2.4
6	19 46 26	130	−16 4.8	+ 5.5	54.9	10 44.7	1.99	5 59	1.5	15 35	2.5
7	20 37 23	125	−13 31.7	+ 7.2	54.6	11 31.6	1.92	6 33	1.3	16 37	2.6
8	21 26 34	121	−10 23.7	+ 8.4	54.3	12 16.7	1.85	7 2	1.2	17 39	2.6
9	22 14 14	118	− 6 50.8	+ 9.3	54.1	13 0.3	1.79	7 28	1.1	18 41	2.6
10	23 0 50	116	− 3 2.5	+ 9.7	54.0	13 42.9	1.76	7 53	1.0	19 43	2.6

Mond 1940

Tag	0h Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1940	h m s	m s	° '	° '	' "	"	' "	"	°	°	d
Febr. 10	22 35 4	44 59	− 5 10.6	3 45.5	54 2.5	3.5	14 45.0	1.0	338.439	+3.482	1.7
11	23 20 3	44 46	− 1 25.1	3 48.0	53 59.0	2.9	14 44.0	0.8	350.266	+2.651	2.7
12	0 4 49	45 5	+ 2 22.9	3 42.8	54 1.9	10.3	14 44.8	2.8	2.051	+1.706	3.7
13	0 49 54	46 0	+ 6 5.7	3 29.8	54 12.2	18.7	14 47.6	5.1	13.846	+0.685	4.7
14	1 35 54	47 30	+ 9 35.5	3 8.7	54 30.9	27.8	14 52.7	7.6	25.715	−0.375	5.7
15	2 23 24	49 30	+12 44.2	2 38.8	54 58.7	37.1	15 0.3	10.1	37.735	−1.434	6.7
16	3 12 54	51 51	+15 23.0	1 59.2	55 35.8	45.8	15 10.4	12.5	49.989	−2.449	7.7
17	4 4 45	54 21	+17 22.2	1 9.6	56 21.6	53.1	15 22.9	14.5	62.565	−3.372	8.7
18	4 59 6	56 38	+18 31.8	0 10.3	57 14.7	57.8	15 37.4	15.7	75.543	−4.154	9.7
19	5 55 44	58 24	+18 42.1	0 55.9	58 12.5	58.4	15 53.1	15.9	88.986	−4.739	10.7
20	6 54 8	59 25	+17 46.2	2 4.6	59 10.9	53.8	16 9.0	14.7	102.929	−5.069	11.7
21	7 53 33	59 38	+15 41.6	3 9.0	60 4.7	43.5	16 23.7	11.8	117.357	−5.095	12.7
22	8 53 11	59 14	+12 32.6	4 2.1	60 48.2	27.7	16 35.5	7.6	132.202	−4.785	13.7
23	9 52 25	58 32	+ 8 30.5	4 37.5	61 15.9	8.4	16 43.1	2.3	147.339	−4.138	14.7
24	10 50 57	57 48	+ 3 53.0	4 51.8	61 24.3	11.9	16 45.4	3.3	162.601	−3.191	15.7
25	11 48 45	57 14	− 0 58.8	4 44.4	61 12.4	29.9	16 42.1	8.1	177.810	−2.018	16.7
26	12 45 59	56 52	− 5 43.2	4 17.4	60 42.5	43.7	16 34.0	11.9	192.804	−0.718	17.7
27	13 42 51	56 36	−10 0.6	3 34.7	59 58.8	51.9	16 22.1	14.2	207.462	+0.603	18.7
28	14 39 27	56 17	−13 35.3	2 41.3	59 6.9	54.7	16 7.9	14.9	221.713	+1.853	19.7
29	15 35 44	55 44	−16 16.6	1 42.1	58 12.2	53.3	15 53.0	14.5	235.537	+2.957	20.7
März 1	16 31 28	54 49	−17 58.7	0 41.3	57 18.9	48.8	15 38.5	13.3	248.950	+3.864	21.7
2	17 26 17	53 31	−18 40.0	0 17.0	56 30.1	42.3	15 25.2	11.5	261.992	+4.544	22.7
3	18 19 48	51 56	−18 23.0	1 10.4	55 47.8	35.2	15 13.7	9.6	274.716	+4.980	23.7
4	19 11 44	50 13	−17 12.6	1 56.8	55 12.6	27.9	15 4.1	7.6	287.179	+5.171	24.7
5	20 1 57	48 31	−15 15.8	2 35.4	54 44.7	21.1	14 56.5	5.8	299.432	+5.120	25.7
6	20 50 28	47 1	−12 40.4	3 5.7	54 23.6	14.8	14 50.7	4.0	311.524	+4.841	26.7
7	21 37 29	45 53	− 9 34.7	3 27.5	54 8.8	9.0	14 46.7	2.4	323.495	+4.351	27.7
8	22 23 22	45 8	− 6 7.2	3 41.0	53 59.8	3.7	14 44.3	1.1	335.378	+3.675	28.7
9	23 8 30	44 52	− 2 26.2	3 46.4	53 56.1	1.5	14 43.2	0.4	347.206	+2.842	29.7
10	23 53 22	45 5	+ 1 20.2	3 43.6	53 57.6	6.8	14 43.6	1.9	359.009	+1.887	0.9
11	0 38 27	45 48	+ 5 3.8	3 32.5	54 4.4	12.4	14 45.5	3.4	10.820	+0.848	1.9
12	1 24 15	46 59	+ 8 36.3	3 13.3	54 16.8	18.7	14 48.9	5.1	22.677	−0.234	2.9
13	2 11 14	48 34	+11 49.6	2 45.2	54 35.5	25.6	14 54.0	6.9	34.626	−1.316	3.9
14	2 59 48	50 26	+14 34.8	2 8.5	55 1.1	32.8	15 0.9	9.0	46.722	−2.354	4.9
15	3 50 14	52 25	+16 43.3	1 23.0	55 33.9	40.3	15 9.9	11.0	59.027	−3.302	5.9
16	4 42 39	54 20	+18 6.3	0 29.3	56 14.2	47.1	15 20.9	12.8	71.606	−4.114	6.9
17	5 36 59	55 56	+18 35.6	0 30.6	57 1.3	52.4	15 33.7	14.3	84.528	−4.742	7.9
18	6 32 55	57 4	+18 5.0	1 34.1	57 53.7	55.1	15 48.0	15.0	97.850	−5.138	8.9
19	7 29 59	57 42	+16 30.9	2 36.6	58 48.8	53.7	16 3.0	14.6	111.614	−5.257	9.9
20	8 27 41	57 55	+13 54.3	3 32.8	59 42.5	47.2	16 17.6	12.9	125.829	−5.065	10.9
21	9 25 36	57 55	+10 21.5	4 17.1	60 29.7	35.1	16 30.5	9.5	140.462	−4.543	11.9
22	10 23 31		+ 6 4.4		61 4.8		16 40.0		155.431	−3.704	12.9

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, + 50° Breite: Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	23 0 50	116	− 3 2.5	+ 9.7	54.0	13 42.9	1.76	7 53	1.0	19 43	2.6
11	23 46 56	115	+ 0 52.0	+ 9.8	54.0	14 24.9	1.75	8 15	1.0	20 44	2.6
12	0 33 8	116	+ 4 44.3	+ 9.5	54.1	15 7.0	1.77	8 39	1.0	21 45	2.6
13	1 20 7	119	+ 8 26.1	+ 8.9	54.4	15 49.9	1.82	9 3	1.0	22 47	2.6
14	2 8 31	123	+11 48.5	+ 7.9	54.8	16 34.3	1.89	9 29	1.2	23 49	2.6
15	2 58 57	129	+14 42.5	+ 6.5	55.4	17 20.7	1.98	9 59	1.3	— —	—
16	3 51 54	136	+16 57.4	+ 4.7	56.2	18 9.5	2.09	10 33	1.6	0 52	2.6
17	4 47 37	143	+18 21.9	+ 2.3	57.1	19 1.2	2.21	11 14	1.9	1 53	2.5
18	5 45 58	149	+18 44.9	− 0.5	58.0	19 55.4	2.31	12 4	2.2	2 52	2.4
19	6 46 26	153	+17 57.5	− 3.5	59.1	20 51.8	2.38	13 2	2.6	3 47	2.2
20	7 48 9	155	+15 55.7	− 6.6	60.0	21 49.4	2.41	14 9	3.0	4 37	2.0
21	8 50 11	155	+12 43.5	− 9.3	60.8	22 47.3	2.41	15 24	3.2	5 21	1.7
22	9 51 48	153	+ 8 33.3	−11.4	61.3	23 44.9	2.38	16 42	3.3	5 59	1.5
23	— — —	—	— —	—	—	— —	—	18 4	3.4	6 35	1.4
24	10 52 38	151	+ 3 44.7	−12.5	61.4	0 41.6	2.35	19 25	3.4	7 7	1.3
25	11 52 39	149	− 1 18.6	−12.6	61.2	1 37.5	2.32	20 46	3.3	7 38	1.3
26	12 52 2	148	− 6 12.1	−11.7	60.6	2 32.8	2.30	22 4	3.2	8 9	1.4
27	13 51 2	147	−10 34.5	−10.0	59.9	3 27.7	2.28	23 19	3.0	8 43	1.5
28	14 49 44	146	−14 8.9	− 7.8	59.0	4 22.3	2.27	— —	—	9 19	1.6
29	15 48 3	145	−16 44.2	− 5.1	58.0	5 16.5	2.25	0 29	2.8	10 0	1.8
März 1	16 45 39	143	−18 15.0	− 2.4	57.1	6 10.1	2.21	1 33	2.5	10 45	2.0
2	17 42 8	139	−18 40.9	+ 0.2	56.3	7 2.4	2.15	2 29	2.2	11 36	2.2
3	18 37 4	135	−18 5.4	+ 2.7	55.6	7 53.3	2.08	3 18	1.9	12 31	2.4
4	19 30 9	130	−16 35.2	+ 4.8	55.0	8 42.3	2.00	3 59	1.6	13 30	2.5
5	20 21 19	126	−14 18.5	+ 6.5	54.6	9 29.4	1.93	4 35	1.4	14 30	2.5
6	21 10 42	121	−11 24.3	+ 7.9	54.3	10 14.7	1.85	5 5	1.2	15 31	2.6
7	21 58 35	118	− 8 2.0	+ 8.9	54.1	10 58.5	1.80	5 33	1.1	16 33	2.6
8	22 45 25	116	− 4 20.8	+ 9.5	54.0	11 41.3	1.77	5 57	1.0	17 35	2.6
9	23 31 40	115	− 0 29.5	+ 9.7	53.9	12 23.5	1.76	6 21	1.0	18 36	2.6
10	0 17 54	116	+ 3 23.1	+ 9.6	54.0	13 5.7	1.76	6 44	1.0	19 37	2.6
11	1 4 41	118	+ 7 7.9	+ 9.1	54.2	13 48.4	1.80	7 8	1.0	20 39	2.6
12	1 52 32	121	+10 36.2	+ 8.2	54.5	14 32.2	1.86	7 34	1.1	21 41	2.6
13	2 41 58	126	+13 38.6	+ 6.9	54.8	15 17.6	1.93	8 2	1.3	22 42	2.5
14	3 33 22	131	+16 5.5	+ 5.2	55.4	16 4.9	2.02	8 34	1.5	23 43	2.5
15	4 26 57	137	+17 47.0	+ 3.1	56.0	16 54.4	2.11	9 12	1.7	— —	—
16	5 22 42	142	+18 33.5	+ 0.7	56.8	17 46.1	2.19	9 57	2.0	0 42	2.4
17	6 20 21	146	+18 17.2	− 2.1	57.7	18 39.6	2.27	10 50	2.4	1 37	2.2
18	7 19 24	149	+16 53.0	− 4.9	58.6	19 34.6	2.31	11 50	2.7	2 27	2.0
19	8 19 15	150	+14 20.8	− 7.7	59.6	20 30.3	2.33	12 59	3.0	3 12	1.8
20	9 19 25	151	+10 46.6	−10.1	60.4	21 26.4	2.34	14 13	3.2	3 52	1.6
21	10 19 36	150	+ 6 22.9	−11.8	61.0	22 22.5	2.33	15 31	3.3	4 28	1.4
22	11 19 45	150	+ 1 28.6	−12.6	61.4	23 18.5	2.34	16 52	3.4	5 1	1.3

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite	Alter
1940	h m s	m s	° ′ ″	° ′	′ ″	″	′ ″	″	°	°	d
März 22	10 23 31	57 54	+ 6 4.4	4 44.2	61 4.8	18.2	16 40.0	5.0	155.431	−3.704	12.9
23	11 21 25	57 58	+ 1 20.2	4 50.7	61 23.0	$\overline{1.6}$	16 45.0	$\overline{0.4}$	170.610	−2.594	13.9
24	12 19 23	58 11	− 3 30.5	4 35.5	61 21.4	21.6	16 44.6	5.9	185.840	−1.295	14.9
25	13 17 34	58 23	− 8 6.0	4 0.0	60 59.8	38.7	16 38.7	10.6	200.955	+0.088	15.9
26	14 15 57	58 23	−12 6.0	3 8.9	60 21.1	50.8	16 28.1	13.8	215.807	+1.441	16.9
27	15 14 20	57 56	−15 14.9	2 7.8	59 30.3	57.3	16 14.3	15.6	230.287	+2.669	17.9
28	16 12 16	56 56	−17 22.7	1 3.2	58 33.0	58.2	15 58.7	15.9	244.332	+3.698	18.9
29	17 9 12	55 22	−18 25.9	0 0.3	57 34.8	54.8	15 42.8	14.9	257.925	+4.482	19.9
30	18 4 34	53 22	−18 26.2	$\overline{0\ 56.7}$	56 40.0	48.4	15 27.9	13.2	271.086	+5.003	20.9
31	18 57 56	51 13	−17 29.5	1 45.8	55 51.6	40.1	15 14.7	10.9	283.859	+5.259	21.9
April 1	19 49 9	49 11	−15 43.7	2 26.2	55 11.5	31.1	15 3.8	8.5	296.307	+5.259	22.9
2	20 38 20	47 23	−13 17.5	2 57.9	54 40.4	22.2	14 55.3	6.0	308.498	+5.020	23.9
3	21 25 43	46 3	−10 19.6	3 21.3	54 18.2	13.6	14 49.3	3.8	320.500	+4.564	24.9
4	22 11 46	45 11	− 6 58.3	3 36.8	54 4.6	6.0	14 45.5	1.6	332.377	+3.916	25.9
5	22 56 57	44 52	− 3 21.5	3 44.6	53 58.6	$\overline{0.7}$	14 43.9	$\overline{0.2}$	344.188	+3.104	26.9
6	23 41 49	45 5	+ 0 23.1	3 44.6	53 59.3	6.6	14 44.1	1.8	355.982	+2.160	27.9
7	0 26 54	45 47	+ 4 7.7	3 36.2	54 5.9	11.6	14 45.9	3.2	7.805	+1.122	28.9
8	1 12 41	46 55	+ 7 43.9	3 19.3	54 17.5	16.3	14 49.1	4.4	19.694	+0.028	0.2
9	1 59 36	48 26	+11 3.2	2 53.2	54 33.8	20.7	14 53.5	5.7	31.685	−1.076	1.2
10	2 48 2	50 9	+13 56.4	2 18.1	54 54.5	25.1	14 59.2	6.8	43.809	−2.143	2.2
11	3 38 11	51 53	+16 14.5	1 34.2	55 19.6	29.6	15 6.0	8.0	56.100	−3.127	3.2
12	4 30 4	53 27	+17 48.7	0 42.5	55 49.2	34.2	15 14.0	9.4	68.593	−3.978	4.2
13	5 23 31	54 40	+18 31.2	$\overline{0\ 14.7}$	56 23.4	38.7	15 23.4	10.5	81.325	−4.650	5.2
14	6 18 11	55 27	+18 16.5	1 14.6	57 2.1	42.6	15 33.9	11.6	94.333	−5.101	6.2
15	7 13 38	55 49	+17 1.9	2 13.8	57 44.7	44.8	15 45.5	12.2	107.651	−5.292	7.2
16	8 9 27	55 54	+14 48.1	3 8.1	58 29.5	44.7	15 57.7	12.2	121.307	−5.194	8.2
17	9 5 21	55 55	+11 40.0	3 53.8	59 14.2	41.1	16 9.9	11.2	135.311	−4.790	9.2
18	10 1 16	56 4	+ 7 46.2	4 26.6	59 55.3	33.2	16 21.1	9.1	149.652	−4.082	10.2
19	10 57 20	56 30	+ 3 19.6	4 43.2	60 28.5	20.9	16 30.2	5.7	164.288	−3.097	11.2
20	11 53 50	57 14	− 1 23.6	4 40.5	60 49.4	5.2	16 35.9	1.4	179.140	−1.891	12.2
21	12 51 4	58 7	− 6 4.1	4 17.4	60 54.6	$\overline{12.1}$	16 37.3	$\overline{3.3}$	194.101	−0.548	13.2
22	13 49 11	58 54	−10 21.5	3 35.5	60 42.5	28.9	16 34.0	7.9	209.041	+0.831	14.2
23	14 48 5	59 17	−13 57.0	2 38.5	60 13.6	42.4	16 26.1	11.6	223.824	+2.138	15.2
24	15 47 22	58 54	−16 35.5	1 32.8	59 31.2	51.4	16 14.5	14.0	238.329	+3.280	16.2
25	16 46 16	57 40	−18 8.3	0 25.4	58 39.8	55.3	16 0.5	15.0	252.465	+4.191	17.2
26	17 43 56	55 41	−18 33.7	$\overline{0\ 37.7}$	57 44.5	54.3	15 45.5	14.8	266.180	+4.830	18.2
27	18 39 37	53 17	−17 56.0	1 32.4	56 50.2	49.6	15 30.7	13.6	279.459	+5.187	19.2
28	19 32 54	50 47	−16 23.6	2 17.0	56 0.6	42.1	15 17.1	11.4	292.328	+5.269	20.2
29	20 23 41	48 31	−14 6.6	2 51.5	55 18.5	33.0	15 5.7	9.0	304.834	+5.096	21.2
30	21 12 12	46 44	−11 15.1	3 16.9	54 45.5	23.1	14 56.7	6.3	317.046	+4.694	22.2
Mai 1	21 58 56	45 30	− 7 58.2	3 33.9	54 22.4	13.2	14 50.4	3.6	329.041	+4.093	23.2
2	22 44 26		− 4 24.3		54 9.2		14 46.8		340.898	+3.323	24.2

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 22	11 19 45	150	+ 1 28.6	−12.6	61.4	23 18.5	2.34	16 52	3.4	5 1	1.3
23	— — —	—	— —	—	—	— —	—	18 14	3.4	5 33	1.3
24	12 19 59	151	− 3 33.4	−12.4	61.4	0 14.7	2.34	19 34	3.3	6 4	1.4
25	13 20 27	151	− 8 18.8	−11.2	61.0	1 11.0	2.35	20 54	3.2	6 37	1.4
26	14 21 8	152	−12 25.0	− 9.2	60.3	2 7.6	2.36	22 9	3.0	7 14	1.6
27	15 21 47	151	−15 34.8	− 6.6	59.4	3 4.2	2.35	23 18	2.7	7 54	1.8
28	16 21 51	149	−17 37.8	− 3.7	58.4	4 0.2	2.31	— —	—	8 39	2.0
29	17 20 41	145	−18 30.9	− 0.8	57.4	4 54.9	2.25	0 20	2.4	9 29	2.2
30	18 17 39	140	−18 17.5	+ 1.9	56.5	5 47.8	2.16	1 13	2.0	10 25	2.4
31	19 12 19	134	−17 4.8	+ 4.1	55.7	6 38.4	2.06	1 57	1.7	11 23	2.5
April 1	20 4 37	128	−15 2.3	+ 6.0	55.0	7 26.6	1.96	2 35	1.5	12 23	2.5
2	20 54 43	123	−12 19.8	+ 7.5	54.5	8 12.6	1.88	3 7	1.3	13 24	2.5
3	21 43 1	119	− 9 6.9	+ 8.5	54.2	8 56.9	1.82	3 36	1.1	14 26	2.5
4	22 30 2	116	− 5 32.4	+ 9.3	54.0	9 39.8	1.77	4 1	1.0	15 27	2.6
5	23 16 21	115	− 1 45.0	+ 9.6	54.0	10 22.1	1.75	4 25	1.0	16 28	2.6
6	0 2 33	116	+ 2 7.2	+ 9.7	54.0	11 4.2	1.76	4 49	1.0	17 29	2.6
7	0 49 15	118	+ 5 55.4	+ 9.3	54.2	11 46.8	1.80	5 13	1.0	18 31	2.6
8	1 36 58	121	+ 9 30.4	+ 8.6	54.4	12 30.5	1.86	5 38	1.1	19 33	2.6
9	2 26 10	125	+12 42.7	+ 7.4	54.7	13 15.6	1.92	6 5	1.2	20 36	2.6
10	3 17 10	130	+15 22.1	+ 5.8	55.1	14 2.6	2.00	6 36	1.4	21 37	2.5
11	4 10 6	135	+17 18.5	+ 3.8	55.6	14 51.4	2.08	7 12	1.6	22 36	2.4
12	5 4 52	139	+18 22.7	+ 1.5	56.2	15 42.1	2.15	7 55	1.9	23 32	2.2
13	6 1 9	142	+18 27.4	− 1.1	56.8	16 34.3	2.20	8 44	2.2	— —	—
14	6 58 28	144	+17 28.2	− 3.8	57.5	17 27.5	2.23	9 41	2.5	0 23	2.0
15	7 56 18	145	+15 24.7	− 6.4	58.3	18 21.3	2.24	10 45	2.8	1 8	1.8
16	8 54 17	145	+12 21.2	− 8.8	59.1	19 15.2	2.25	11 55	3.0	1 49	1.6
17	9 52 17	145	+ 8 26.3	−10.7	59.8	20 9.1	2.25	13 8	3.1	2 25	1.4
18	10 50 26	146	+ 3 53.6	−11.9	60.4	21 3.1	2.26	14 25	3.2	2 58	1.3
19	11 49 1	147	− 0 59.3	−12.3	60.8	21 57.6	2.28	15 44	3.3	3 29	1.3
20	12 48 22	150	− 5 51.3	−11.8	60.9	22 52.9	2.33	17 4	3.3	4 0	1.3
21	13 48 44	152	−10 19.7	−10.4	60.7	23 49.2	2.37	18 24	3.3	4 31	1.4
22	— — —	—	— —	—	—	— —	—	19 42	3.2	5 6	1.5
23	14 50 0	154	−14 3.1	− 8.1	60.2	0 46.3	2.39	20 56	2.9	5 44	1.7
24	15 51 38	154	−16 44.5	− 5.3	59.5	1 43.9	2.39	22 3	2.6	6 27	1.9
25	16 52 47	151	−18 14.5	− 2.2	58.6	2 40.9	2.35	23 2	2.3	7 17	2.2
26	17 52 27	147	−18 31.8	+ 0.7	57.6	3 36.5	2.27	23 52	1.9	8 12	2.4
27	18 49 48	140	−17 42.5	+ 3.3	56.7	4 29.7	2.17	— —	—	9 11	2.5
28	19 44 24	133	−15 56.6	+ 5.4	55.8	5 20.3	2.05	0 33	1.6	10 12	2.6
29	20 36 17	127	−13 25.7	+ 7.1	55.2	6 8.1	1.94	1 8	1.4	11 14	2.6
30	21 25 47	121	−10 20.8	+ 8.3	54.6	6 53.5	1.85	1 39	1.2	12 16	2.6
Mai 1	22 13 29	118	− 6 51.8	+ 9.1	54.3	7 37.1	1.79	2 5	1.1	13 17	2.6
2	23 0 4	116	− 3 7.4	+ 9.6	54.1	8 19.7	1.76	2 30	1.0	14 19	2.6

Mond 1940

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	A[illegible]er
1940	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Mai 2	22 44 26	44 55	− 4 24.3	3 43.5	54 9.2	3.9	14 46.8	1.1	340.898	+3.323	24.2
3	23 29 21	44 56	− 0 40.8	3 45.6	54 5.3	4.5	14 45.7	1.3	352.694	+2.416	25.2
4	0 14 17	45 34	+ 3 4.8	3 40.0	54 9.8	11.6	14 47.0	3.1	4.500	+1.406	26.2
5	0 59 51	46 44	+ 6 44.8	3 26.2	54 21.4	17.4	14 50.1	4.8	16.380	+0.330	27.2
6	1 46 35	48 20	+10 11.0	3 3.2	54 38.8	22.0	14 54.9	6.0	28.384	−0.770	28.2
7	2 34 55	50 10	+13 14.2	2 30.4	55 0.8	25.3	15 0.9	6.8	40.554	−1.848	29.2
8	3 25 5	52 2	+15 44.6	1 48.0	55 26.1	27.6	15 7.7	7.6	52.920	−2.855	0.5
9	4 17 7	53 40	+17 32.6	0 57.0	55 53.7	29.2	15 15.3	7.9	65.500	−3.740	1.5
10	5 10 47	54 50	+18 29.6	0 0.2	56 22.9	30.4	15 23.2	8.3	78.304	−4.453	2.5
11	6 5 37	55 25	+18 29.4	1 0.4	56 53.3	31.3	15 31.5	8.6	91.337	−4.949	3.5
12	7 1 2	55 26	+17 29.0	1 59.2	57 24.6	31.9	15 40.1	8.6	104.598	−5.191	4.5
13	7 56 28	55 5	+15 29.8	2 52.9	57 56.5	31.7	15 48.7	8.7	118.085	−5.153	5.5
14	8 51 33	54 39	+12 36.9	3 38.0	58 28.2	30.6	15 57.4	8.3	131.796	−4.824	6.5
15	9 46 12	54 23	+ 8 58.9	4 11.7	58 58.8	27.6	16 5.7	7.5	145.726	−4.209	7.5
16	10 40 35	54 31	+ 4 47.2	4 31.7	59 26.4	22.3	16 13.2	6.1	159.862	−3.331	8.5
17	11 35 6	55 7	+ 0 15.5	4 35.7	59 48.7	14.2	16 19.3	3.9	174.183	−2.235	9.5
18	12 30 13	56 9	− 4 20.2	4 22.5	60 2.9	3.7	16 23.2	1.0	188.649	−0.987	10.5
19	13 26 22	57 24	− 8 42.7	3 51.1	60 6.6	8.7	16 24.2	2.4	203.202	+0.330	11.5
20	14 23 46	58 30	−12 33.8	3 3.4	59 57.9	21.4	16 21.8	5.8	217.762	+1.625	12.5
21	15 22 16	59 5	−15 37.2	2 2.8	59 36.5	33.0	16 16.0	9.0	232.234	+2.804	13.5
22	16 21 21	58 46	−17 40.0	0 55.5	59 3.5	41.7	16 7.0	11.4	246.518	+3.790	14.5
23	17 20 7	57 28	−18 35.5	0 11.5	58 21.8	46.9	15 55.6	12.8	260.525	+4.525	15.5
24	18 17 35	55 22	−18 24.0	1 12.4	57 34.9	48.1	15 42.8	13.0	274.187	+4.980	16.5
25	19 12 57	52 49	−17 11.6	2 3.3	56 46.8	45.4	15 29.8	12.4	287.467	+5.152	17.5
26	20 5 46	50 16	−15 8.3	2 43.1	56 1.4	39.7	15 17.4	10.8	300.363	+5.053	18.5
27	20 56 2	48 1	−12 25.2	3 12.1	55 21.7	31.7	15 6.6	8.7	312.905	+4.713	19.5
28	21 44 3	46 19	− 9 13.1	3 31.6	54 50.0	22.3	14 57.9	6.1	325.146	+4.162	20.5
29	22 30 22	45 15	− 5 41.5	3 42.9	54 27.7	12.1	14 51.8	3.2	337.159	+3.437	21.5
30	23 15 37	44 54	− 1 58.6	3 46.6	54 15.6	1.9	14 48.6	0.6	349.026	+2.571	22.5
31	0 0 31	45 13	+ 1 48.0	3 43.3	54 13.7	7.8	14 48.0	2.2	0.834	+1.600	23.5
Juni 1	0 45 44	46 12	+ 5 31.3	3 32.3	54 21.5	16.4	14 50.2	4.4	12.668	+0.560	24.5
2	1 31 56	47 45	+ 9 3.6	3 12.9	54 37.9	23.6	14 54.6	6.4	24.609	−0.513	25.5
3	2 19 41	49 43	+12 16.5	2 44.0	55 1.5	28.9	15 1.0	7.9	36.726	−1.576	26.5
4	3 9 24	51 51	+15 0.5	2 5.0	55 30.4	32.2	15 8.9	8.8	49.073	−2.582	27.5
5	4 1 15	53 53	+17 5.5	1 15.9	56 2.6	33.5	15 17.7	9.1	61.688	−3.482	28.5
6	4 55 8	55 27	+18 21.4	0 18.7	56 36.1	32.9	15 26.8	9.0	74.585	−4.224	0.0
7	5 50 35	56 18	+18 40.1	0 43.1	57 9.0	30.6	15 35.8	8.3	87.760	−4.758	1.0
8	6 46 53	56 25	+17 57.0	1 44.9	57 39.6	27.4	15 44.1	7.5	101.189	−5.041	2.0
9	7 43 18	55 54	+16 12.1	2 41.6	58 7.0	23.5	15 51.6	6.4	114.833	−5.044	3.0
10	8 39 12	55 3	+13 30.5	3 28.9	58 30.5	19.4	15 58.0	5.3	128.648	−4.755	4.0
11	9 34 15	54 16	+10 1.6	4 4.1	58 49.9	15.2	16 3.3	4.1	142.593	−4.184	5.0
12	10 28 31		+ 5 57.5		59 5.1		16 7.4		156.631	−3.357	6.0

Tag	Obere Kulmination in Greenwich							0ʰ Länge, + 50° Breite			
	AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Mai 2	23 0 4	116	− 3 7.4	+ 9.6	54.1	8 19.7	1.76	2 30	1.0	14 19	2.6
3	23 46 13	115	+ 0 44.2	+ 9.7	54.1	9 1.8	1.76	2 53	1.0	15 20	2.6
4	0 32 40	117	+ 4 35.2	+ 9.5	54.2	9 44.2	1.78	3 17	1.0	16 22	2.6
5	1 20 3	120	+ 8 16.9	+ 8.9	54.5	10 27.5	1.83	3 41	1.1	17 24	2.6
6	2 8 56	124	+11 39.9	+ 7.9	54.8	11 12.3	1.90	4 8	1.2	18 27	2.6
7	2 59 44	130	+14 34.0	+ 6.5	55.2	11 59.0	1.99	4 38	1.3	19 29	2.6
8	3 52 36	135	+16 48.1	+ 4.6	55.7	12 47.8	2.08	5 12	1.6	20 30	2.5
9	4 47 27	139	+18 11.7	+ 2.3	56.2	13 38.6	2.15	5 53	1.8	21 28	2.3
10	5 43 51	142	+18 36.6	− 0.3	56.7	14 30.9	2.20	6 40	2.1	22 21	2.1
11	6 41 9	144	+17 57.6	− 3.0	57.2	15 24.1	2.23	7 36	2.4	23 8	1.9
12	7 38 41	144	+16 14.3	− 5.6	57.8	16 17.6	2.23	8 37	2.7	23 50	1.6
13	8 35 56	143	+13 31.1	− 7.9	58.3	17 10.7	2.20	9 44	2.9	— —	—
14	9 32 42	141	+ 9 56.5	− 9.9	58.9	18 3.4	2.19	10 56	3.0	0 27	1.5
15	10 29 6	141	+ 5 42.5	−11.2	59.3	18 55.7	2.18	12 9	3.1	1 0	1.3
16	11 25 32	142	+ 1 3.8	−11.9	59.8	19 48.1	2.19	13 25	3.2	1 30	1.2
17	12 22 33	144	− 3 42.5	−11.8	60.0	20 41.0	2.23	14 42	3.2	2 0	1.2
18	13 20 39	147	− 8 17.4	−10.9	60.1	21 35.0	2.28	15 59	3.2	2 29	1.3
19	14 20 9	150	−12 20.7	− 9.2	60.0	22 30.4	2.34	17 16	3.2	3 1	1.4
20	15 20 56	153	−15 33.6	− 6.8	59.6	23 27.1	2.38	18 32	3.0	3 37	1.6
21	— — —	—	— —	—	—	— —	—	19 42	2.8	4 17	1.8
22	16 22 21	154	−17 41.5	− 3.9	59.0	0 24.4	2.39	20 46	2.5	5 3	2.1
23	17 23 25	151	−18 36.6	− 0.8	58.3	1 21.4	2.35	21 41	2.1	5 56	2.3
24	18 22 57	146	−18 19.6	+ 2.1	57.5	2 16.8	2.27	22 28	1.8	6 54	2.5
25	19 20 3	139	−16 58.0	+ 4.6	56.7	3 9.8	2.15	23 7	1.5	7 56	2.6
26	20 14 19	132	−14 43.5	+ 6.5	55.9	4 0.0	2.03	23 40	1.3	8 59	2.6
27	21 5 47	125	−11 48.8	+ 7.9	55.2	4 47.4	1.93	— —	—	10 2	2.6
28	21 54 52	120	− 8 25.6	+ 8.9	54.7	5 32.4	1.83	0 8	1.1	11 5	2.6
29	22 42 15	117	− 4 44.1	+ 9.5	54.4	6 15.7	1.78	0 33	1.0	12 7	2.6
30	23 28 40	115	− 0 52.9	+ 9.7	54.2	6 58.1	1.76	0 57	1.0	13 9	2.6
31	0 14 54	116	+ 3 0.1	+ 9.6	54.3	7 40.3	1.76	1 20	1.0	14 10	2.6
Juni 1	1 1 44	118	+ 6 47.1	+ 9.2	54.4	8 23.0	1.81	1 44	1.0	15 12	2.6
2	1 49 52	123	+10 19.6	+ 8.4	54.8	9 7.1	1.87	2 10	1.1	16 15	2.6
3	2 39 54	128	+13 28.1	+ 7.2	55.2	9 53.1	1.96	2 38	1.3	17 17	2.6
4	3 32 13	134	+16 1.6	+ 5.5	55.7	10 41.3	2.06	3 11	1.5	18 20	2.6
5	4 26 54	139	+17 48.6	+ 3.3	56.3	11 31.9	2.15	3 49	1.7	19 20	2.4
6	5 23 39	144	+18 38.6	+ 0.8	56.9	12 24.6	2.23	4 34	2.1	20 16	2.2
7	6 21 45	146	+18 23.9	− 2.0	57.4	13 18.6	2.26	5 28	2.4	21 6	2.0
8	7 20 21	146	+17 2.1	− 4.8	57.9	14 13.1	2.27	6 28	2.7	21 51	1.7
9	8 18 36	145	+14 36.4	− 7.3	58.4	15 7.3	2.24	7 35	2.9	22 30	1.5
10	9 16 1	142	+11 15.7	− 9.3	58.7	16 0.6	2.20	8 46	3.0	23 4	1.4
11	10 12 29	140	+ 7 12.8	−10.8	59.0	16 53.0	2.17	9 59	3.1	23 35	1.3
12	11 8 18	139	+ 2 42.6	−11.6	59.2	17 44.7	2.15	11 13	3.1	— —	—

Tag	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
	0h Welt-Zeit										
1940	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Juni 12	10 28 31	53 47	+ 5 57.5	4 25.3	59 5.1	10.9	16 7.4	3.0	156.631	−3.357	6.0
13	11 22 18	53 49	+ 1 32.2	4 31.6	59 16.0	6.1	16 10.4	1.7	170.734	−2.323	7.0
14	12 16 7	54 23	− 2 59.4	4 22.4	59 22.1	0.7	16 12.1	0.1	184.883	−1.143	8.0
15	13 10 30	55 25	− 7 21.8	3 57.5	59 22.8	5.7	16 12.2	1.5	199.057	+0.109	9.0
16	14 5 55	56 37	−11 19.3	3 17.5	59 17.1	12.9	16 10.7	3.5	213.231	+1.352	10.0
17	15 2 32	57 38	−14 36.8	2 24.5	59 4.2	20.5	16 7.2	5.6	227.369	+2.507	11.0
18	16 0 10	58 4	−17 1.3	1 22.1	58 43.7	27.6	16 1.6	7.5	241.420	+3.500	12.0
19	16 58 14	57 38	−18 23.4	0 16.1	58 16.1	33.7	15 54.1	9.2	255.324	+4.271	13.0
20	17 55 52	56 16	−18 39.5	0 47.6	57 42.4	37.7	15 44.9	10.3	269.018	+4.783	14.0
21	18 52 8	54 12	−17 51.9	1 43.7	57 4.7	39.2	15 34.6	10.7	282.444	+5.017	15.0
22	19 46 20	51 48	−16 8.2	2 29.4	56 25.5	37.8	15 23.9	10.3	295.564	+4.979	16.0
23	20 38 8	49 26	−13 38.8	3 3.8	55 47.7	33.8	15 13.6	9.2	308.364	+4.689	17.0
24	21 27 34	47 25	−10 35.0	3 27.2	55 13.9	27.5	15 4.4	7.5	320.853	+4.178	18.0
25	22 14 59	45 57	− 7 7.8	3 41.3	54 46.4	19.3	14 56.9	5.2	333.071	+3.483	19.0
26	23 0 56	45 8	− 3 26.5	3 47.0	54 27.1	9.8	14 51.7	2.7	345.074	+2.645	20.0
27	23 46 4	45 0	+ 0 20.5	3 45.4	54 17.3	0.3	14 49.0	0.1	356.939	+1.699	21.0
28	0 31 4	45 35	+ 4 5.9	3 36.7	54 17.6	10.6	14 49.1	2.9	8.751	+0.684	22.0
29	1 16 39	46 49	+ 7 42.6	3 20.4	54 28.2	20.4	14 52.0	5.5	20.599	−0.363	23.0
30	2 3 28	48 37	+11 3.0	2 55.5	54 48.6	29.0	14 57.5	7.9	32.574	−1.404	24.0
Juli 1	2 52 5	50 50	+13 58.5	2 21.3	55 17.6	35.8	15 5.4	9.8	44.760	−2.399	25.0
2	3 42 55	53 9	+16 19.8	1 36.7	55 53.4	40.3	15 15.2	11.0	57.228	−3.300	26.0
3	4 36 4	55 16	+17 56.5	0 42.5	56 33.7	41.8	15 26.2	11.4	70.028	−4.059	27.0
4	5 31 20	56 48	+18 39.0	0 19.1	57 15.5	40.3	15 37.6	10.9	83.188	−4.624	28.0
5	6 28 8	57 31	+18 19.9	1 23.6	57 55.8	35.7	15 48.5	9.8	96.699	−4.949	29.0
6	7 25 39	57 25	+16 56.3	2 25.6	58 31.5	28.6	15 58.3	7.8	110.523	−4.994	0.5
7	8 23 4	56 40	+14 30.7	3 18.9	59 0.1	20.0	16 6.1	5.4	124.594	−4.740	1.5
8	9 19 44	55 41	+11 11.8	3 59.5	59 20.1	10.9	16 11.5	3.0	138.829	−4.191	2.5
9	10 15 25	54 46	+ 7 12.3	4 24.5	59 31.0	2.2	16 14.5	0.6	153.141	−3.375	3.5
10	11 10 11	54 14	+ 2 47.8	4 33.2	59 33.2	5.2	16 15.1	1.4	167.454	−2.346	4.5
11	12 4 25	54 11	− 1 45.4	4 25.8	59 28.0	11.3	16 13.7	3.1	181.712	−1.173	5.5
12	12 58 36	54 38	− 6 11.2	4 3.1	59 16.7	16.0	16 10.6	4.4	195.878	+0.067	6.5
13	13 53 14	55 23	−10 14.3	3 26.6	59 0.7	19.7	16 6.2	5.3	209.932	+1.294	7.5
14	14 48 37	56 12	−13 40.9	2 38.0	58 41.0	22.9	16 0.9	6.3	223.866	+2.432	8.5
15	15 44 49	56 44	−16 18.9	1 40.5	58 18.1	25.6	15 54.6	7.0	237.669	+3.415	9.5
16	16 41 33	56 41	−17 59.4	0 38.1	57 52.5	28.1	15 47.6	7.6	251.329	+4.191	10.5
17	17 38 14	55 53	−18 37.5	0 24.4	57 24.4	30.1	15 40.0	8.2	264.825	+4.721	11.5
18	18 34 7	54 24	−18 13.1	1 22.3	56 54.3	31.3	15 31.8	8.5	278.130	+4.986	12.5
19	19 28 31	52 25	−16 50.8	2 11.8	56 23.0	31.3	15 23.3	8.6	291.215	+4.983	13.5
20	20 20 56	50 17	−14 39.0	2 50.8	55 51.7	29.7	15 14.7	8.1	304.059	+4.725	14.5
21	21 11 13	48 18	−11 48.2	3 19.1	55 22.0	26.5	15 6.6	7.2	316.651	+4.239	15.5
22	21 59 31	46 40	− 8 29.1	3 36.9	54 55.5	21.6	14 59.4	5.9	328.997	+3.561	16.5
23	22 46 11		− 4 52.2		54 33.9		14 53.5		341.124	+2.729	17.5

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 12	11 8 18	139	+ 2 42.6	−11.6	59.2	17 44.7	2.15	11 13	3.1	— —	—
13	12 3 59	140	− 1 58.6	−11.7	59.4	18 36.3	2.16	12 28	3.1	0 4	1.2
14	13 0 11	142	− 6 33.7	−11.1	59.4	19 28.4	2.19	13 44	3.1	0 33	1.2
15	13 57 26	145	−10 45.5	− 9.8	59.3	20 21.6	2.25	14 59	3.1	1 3	1.3
16	14 56 2	148	−14 16.8	− 7.7	59.1	21 16.1	2.30	16 13	3.0	1 36	1.4
17	15 55 49	151	−16 52.5	− 5.2	58.8	22 11.8	2.34	17 24	2.9	2 12	1.6
18	16 56 9	151	−18 21.6	− 2.2	58.3	23 8.0	2.34	18 31	2.6	2 55	1.9
19	— — —	—	— —	—	—	— —	—	19 30	2.3	3 43	2.2
20	17 56 1	148	−18 39.4	+ 0.7	57.7	0 3.8	2.30	20 20	1.9	4 38	2.4
21	18 54 22	143	−17 48.8	+ 3.4	57.1	0 58.0	2.21	21 3	1.7	5 38	2.6
22	19 50 23	137	−15 58.3	+ 5.7	56.4	1 50.0	2.11	21 39	1.4	6 42	2.7
23	20 43 43	130	−13 19.9	+ 7.4	55.7	2 39.2	2.00	22 10	1.2	7 46	2.7
24	21 34 28	124	−10 6.6	+ 8.6	55.2	3 25.9	1.90	22 36	1.1	8 50	2.6
25	22 23 4	119	− 6 30.0	+ 9.4	54.7	4 10.5	1.82	23 1	1.0	9 53	2.6
26	23 10 11	117	− 2 40.5	+ 9.7	54.4	4 53.5	1.78	23 25	1.0	10 55	2.6
27	23 56 33	116	+ 1 13.5	+ 9.7	54.3	5 35.8	1.76	23 48	1.0	11 57	2.6
28	0 42 57	117	+ 5 4.0	+ 9.4	54.3	6 18.2	1.78	— —	—	12 58	2.6
29	1 30 12	119	+ 8 43.3	+ 8.8	54.6	7 1.4	1.83	0 13	1.1	14 0	2.6
30	2 18 59	124	+12 2.9	+ 7.8	55.0	7 46.1	1.90	0 39	1.2	15 2	2.6
Juli 1	3 9 56	130	+14 53.3	+ 6.3	55.5	8 32.9	2.00	1 10	1.4	16 5	2.6
2	4 3 24	137	+17 3.4	+ 4.4	56.1	9 22.3	2.11	1 45	1.6	17 6	2.5
3	4 59 24	143	+18 21.8	+ 2.0	56.9	10 14.3	2.21	2 27	1.9	18 5	2.3
4	5 57 33	147	+18 38.1	− 0.7	57.6	11 8.3	2.28	3 17	2.3	18 59	2.1
5	6 57 0	149	+17 45.9	− 3.6	58.2	12 3.7	2.32	4 15	2.6	19 47	1.9
6	7 56 47	149	+15 44.8	− 6.4	58.8	12 59.3	2.31	5 21	2.8	20 29	1.7
7	8 56 1	147	+12 41.2	− 8.8	59.2	13 54.5	2.28	6 32	3.0	21 6	1.5
8	9 54 13	144	+ 8 47.8	−10.5	59.5	14 48.6	2.23	7 46	3.1	21 39	1.3
9	10 51 18	142	+ 4 21.2	−11.6	59.6	15 41.6	2.19	9 2	3.2	22 10	1.2
10	11 47 39	140	− 0 20.8	−11.8	59.5	16 33.9	2.17	10 18	3.2	22 39	1.2
11	12 43 45	140	− 5 0.1	−11.3	59.3	17 25.9	2.17	11 33	3.1	23 8	1.3
12	13 40 12	142	− 9 19.5	−10.2	59.1	18 18.3	2.20	12 48	3.1	23 39	1.4
13	14 37 27	144	−13 3.0	− 8.4	58.8	19 11.4	2.23	14 2	3.0	— —	—
14	15 35 37	146	−15 56.9	− 6.0	58.4	20 5.5	2.27	15 13	2.9	0 14	1.5
15	16 34 27	147	−17 50.3	− 3.4	57.9	21 0.2	2.29	16 19	2.7	0 53	1.7
16	17 33 20	147	−18 36.7	− 0.5	57.4	21 55.0	2.27	17 20	2.4	1 38	2.0
17	18 31 23	143	−18 15.7	+ 2.2	56.9	22 49.0	2.22	18 14	2.1	2 29	2.3
18	19 27 49	138	−16 52.2	+ 4.7	56.4	23 41.3	2.14	18 59	1.8	3 26	2.5
19	— — —	—	— —	—	—	— —	—	19 38	1.5	4 28	2.6
20	20 22 3	133	−14 35.7	+ 6.6	55.9	0 31.5	2.04	20 10	1.3	5 31	2.7
21	21 13 56	127	−11 37.8	+ 8.1	55.3	1 19.3	1.94	20 39	1.1	6 35	2.7
22	22 3 37	122	− 8 10.9	+ 9.1	54.9	2 4.9	1.86	21 5	1.0	7 39	2.6
23	22 51 34	118	− 4 26.0	+ 9.6	54.5	2 48.8	1.80	21 29	1.0	8 42	2.6

Tag		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite	Alter
		0h Welt-Zeit										
1940		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Juli	23	22 46 11	45 33	− 4 52.2	3 45.7	54 33.9	14.8	14 53.5	4.0	341.124	+2.729	17.5
	24	23 31 44	45 4	− 1 6.5	3 46.2	54 19.1	6.6	14 49.5	1.8	353.074	+1.787	18.5
	25	0 16 48	45 12	+ 2 39.7	3 39.2	54 12.5	2.6	14 47.7	0.7	4.910	+0.773	19.5
	26	1 2 0	45 59	+ 6 18.9	3 25.2	54 15.1	12.6	14 48.4	3.4	16.705	−0.272	20.5
	27	1 47 59	47 22	+ 9 44.1	3 3.4	54 27.7	22.7	14 51.8	6.2	28.545	−1.311	21.5
	28	2 35 21	49 16	+12 47.5	2 33.4	54 50.4	32.3	14 58.0	8.8	40.518	−2.303	22.5
	29	3 24 37	51 31	+15 20.9	1 54.2	55 22.7	40.7	15 6.8	11.1	52.715	−3.210	23.5
	30	4 16 8	53 49	+17 15.1	1 5.5	56 3.4	46.9	15 17.9	12.8	65.217	−3.986	24.5
	31	5 9 57	55 52	+18 20.6	0 8.1	56 50.3	50.1	15 30.7	13.6	78.093	−4.586	25.5
Aug.	1	6 5 49	57 21	+18 28.7	0 55.4	57 40.4	49.3	15 44.3	13.5	91.385	−4.960	26.5
	2	7 3 10	58 4	+17 33.3	2 0.1	58 29.7	44.4	15 57.8	12.1	105.100	−5.065	27.5
	3	8 1 14	58 2	+15 33.2	3 0.1	59 14.1	35.2	16 9.9	9.6	119.206	−4.870	28.5
	4	8 59 16	57 26	+12 33.1	3 49.2	59 49.3	22.8	16 19.5	6.2	133.628	−4.365	0.2
	5	9 56 42	56 40	+ 8 43.9	4 22.8	60 12.1	8.8	16 25.7	2.4	148.260	−3.568	1.2
	6	10 53 22	55 59	+ 4 21.1	4 38.0	60 20.9	5.1	16 28.1	1.4	162.980	−2.527	2.2
	7	11 49 21	55 35	− 0 16.9	4 34.8	60 15.8	17.0	16 26.7	4.6	177.668	−1.319	3.2
	8	12 44 56	55 32	− 4 51.7	4 14.2	59 58.8	26.1	16 22.1	7.2	192.226	−0.032	4.2
	9	13 40 28	55 47	− 9 5.9	3 38.5	59 32.7	32.0	16 14.9	8.7	206.587	+1.242	5.2
	10	14 36 15	56 7	−12 44.4	2 50.9	59 0.7	34.9	16 6.2	9.5	220.711	+2.420	6.2
	11	15 32 22	56 18	−15 35.3	1 54.8	58 25.8	35.6	15 56.7	9.7	234.586	+3.434	7.2
	12	16 28 40	56 4	−17 30.1	0 54.1	57 50.2	34.8	15 47.0	9.5	248.215	+4.233	8.2
	13	17 24 44	55 18	−18 24.2	0 6.9	57 15.4	33.2	15 37.5	9.0	261.608	+4.785	9.2
	14	18 20 2	54 0	−18 17.3	1 4.2	56 42.2	31.1	15 28.5	8.5	274.774	+5.073	10.2
	15	19 14 2	52 18	−17 13.1	1 54.9	56 11.1	28.8	15 20.0	7.8	287.724	+5.095	11.2
	16	20 6 20	50 25	−15 18.2	2 36.4	55 42.3	26.4	15 12.2	7.2	300.464	+4.862	12.2
	17	20 56 45	48 36	−12 41.8	3 8.2	55 15.9	23.4	15 5.0	6.4	312.999	+4.397	13.2
	18	21 45 21	47 3	− 9 33.6	3 29.8	54 52.5	19.8	14 58.6	5.4	325.338	+3.731	14.2
	19	22 32 24	45 54	− 6 3.8	3 41.9	54 32.7	15.3	14 53.2	4.2	337.494	+2.903	15.2
	20	23 18 18	45 14	− 2 21.9	3 45.4	54 17.4	9.7	14 49.0	2.6	349.491	+1.953	16.2
	21	0 3 32	45 7	+ 1 23.5	3 40.7	54 7.7	3.1	14 46.4	.8	1.365	+0.925	17.2
	22	0 48 39	45 33	+ 5 4.2	3 28.4	54 4.6	4.8	14 45.6	1.3	13.162	−0.139	18.2
	23	1 34 12	46 31	+ 8 32.6	3 8.8	54 9.4	13.6	14 46.9	3.7	24.942	−1.197	19.2
	24	2 20 43	47 58	+11 41.4	2 41.5	54 23.0	23.1	14 50.6	6.3	36.774	−2.211	20.2
	25	3 8 41	49 47	+14 22.9	2 6.2	54 46.1	32.7	14 56.9	8.9	48.737	−3.140	21.2
	26	3 58 28	51 51	+16 29.1	1 22.6	55 18.8	41.7	15 5.8	11.3	60.914	−3.944	22.2
	27	4 50 19	53 52	+17 51.7	0 30.9	56 0.5	49.5	15 17.1	13.5	73.388	−4.584	23.2
	28	5 44 11	55 39	+18 22.6	0 27.5	56 50.0	54.7	15 30.6	14.9	86.234	−5.016	24.2
	29	6 39 50	56 56	+17 55.1	1 30.0	57 44.7	56.2	15 45.5	15.3	99.510	−5.198	25.2
	30	7 36 46	57 40	+16 25.1	2 31.8	58 40.9	53.0	16 0.8	14.5	113.245	−5.094	26.2
	31	8 34 26	57 52	+13 53.3	3 27.6	59 33.9	44.5	16 15.3	12.1	127.429	−4.681	27.2
Sept.	1	9 32 18	57 44	+10 25.7	4 11.1	60 18.4	30.9	16 27.4	8.4	142.008	−3.957	28.2
	2	10 30 2		+ 6 14.6		60 49.3		16 35.8		156.879	−2.954	29.2

Tag	Obere Kulmination in Greenwich							0^h Länge, + 50° Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 23	22 51 34	118	− 4 26.0	+ 9.6	54.5	2 48.8	1.80	21 29	1.0	8 42	2.6
24	23 38 22	116	− 0 33.1	+ 9.7	54.3	3 31.5	1.77	21 52	1.0	9 44	2.6
25	0 24 44	116	+ 3 19.0	+ 9.5	54.2	4 13.8	1.76	22 16	1.0	10 45	2.6
26	1 11 23	118	+ 7 2.6	+ 9.0	54.3	4 56.4	1.79	22 42	1.1	11 46	2.6
27	1 59 1	121	+10 29.6	+ 8.2	54.5	5 40.0	1.85	23 10	1.3	12 48	2.6
28	2 48 20	126	+13 31.8	+ 6.9	55.0	6 25.3	1.93	23 43	1.5	13 49	2.5
29	3 39 51	132	+15 59.7	+ 5.3	55.6	7 12.7	2.03	—	—	14 50	2.5
30	4 33 55	138	+17 42.9	+ 3.2	56.3	8 2.7	2.13	0 20	1.7	15 50	2.4
31	5 30 30	144	+18 30.7	+ 0.7	57.1	8 55.2	2.23	1 6	2.1	16 46	2.2
Aug. 1	6 29 10	149	+18 13.9	− 2.1	58.0	9 49.7	2.31	2 0	2.4	17 37	2.0
2	7 29 10	151	+16 47.3	− 5.1	58.8	10 45.7	2.34	3 2	2.7	18 23	1.8
3	8 29 34	151	+14 12.4	− 7.8	59.5	11 42.0	2.34	4 11	3.0	19 3	1.6
4	9 29 35	149	+10 37.7	−10.0	60.1	12 37.9	2.32	5 26	3.2	19 38	1.4
5	10 28 48	147	+ 6 18.5	−11.5	60.3	13 33.0	2.28	6 43	3.2	20 11	1.3
6	11 27 9	145	+ 1 34.3	−12.1	60.3	14 27.3	2.25	8 1	3.3	20 42	1.3
7	12 24 55	144	− 3 14.2	−11.8	60.1	15 20.9	2.23	9 19	3.2	21 12	1.3
8	13 22 30	144	− 7 47.0	−10.8	59.7	16 14.4	2.23	10 36	3.2	21 43	1.4
9	14 20 16	145	−11 46.3	− 9.1	59.2	17 8.1	2.25	11 51	3.1	22 17	1.5
10	15 18 24	146	−14 57.8	− 6.8	58.6	18 2.2	2.26	13 4	2.9	22 55	1.7
11	16 16 48	146	−17 10.8	− 4.2	58.0	18 56.5	2.26	14 12	2.7	23 38	1.9
12	17 15 4	145	−18 19.2	− 1.5	57.4	19 50.6	2.25	15 14	2.4	— —	—
13	18 12 35	142	−18 21.7	+ 1.2	56.8	20 44.1	2.20	16 9	2.1	0 26	2.1
14	19 8 43	138	−17 21.9	+ 3.7	56.2	21 36.1	2.13	16 56	1.8	1 21	2.4
15	20 2 59	133	−15 27.1	+ 5.8	55.7	22 26.3	2.05	17 37	1.6	2 19	2.5
16	20 55 11	128	−12 47.3	+ 7.4	55.3	23 14.4	1.96	18 11	1.4	3 21	2.6
17	— — —	—	— —	—	—	— —	—	18 41	1.2	4 24	2.6
18	21 45 23	123	− 9 33.6	+ 8.6	54.9	0 0.5	1.88	19 8	1.1	5 27	2.6
19	22 33 51	119	− 5 57.0	+ 9.3	54.5	0 45.0	1.83	19 33	1.0	6 30	2.6
20	23 21 5	117	− 2 8.1	+ 9.7	54.3	1 28.1	1.78	19 57	1.0	7 32	2.6
21	0 7 38	116	+ 1 43.8	+ 9.6	54.1	2 10.6	1.77	20 21	1.0	8 34	2.6
22	0 54 6	117	+ 5 30.0	+ 9.2	54.1	2 53.0	1.78	20 46	1.1	9 35	2.5
23	1 41 6	119	+ 9 2.4	+ 8.4	54.2	3 36.0	1.81	21 13	1.2	10 36	2.5
24	2 29 15	122	+12 12.8	+ 7.4	54.4	4 20.1	1.87	21 43	1.4	11 37	2.5
25	3 19 5	127	+14 52.9	+ 5.9	54.9	5 5.8	1.95	22 18	1.6	12 37	2.5
26	4 11 1	133	+16 53.7	+ 4.1	55.5	5 53.7	2.04	22 59	1.9	13 36	2.4
27	5 5 13	138	+18 5.9	+ 1.9	56.2	6 43.8	2.13	23 47	2.2	14 32	2.3
28	6 1 38	144	+18 20.5	− 0.7	57.1	7 36.1	2.22	— —	—	15 24	2.1
29	6 59 53	147	+17 30.4	− 3.5	58.1	8 30.3	2.29	0 44	2.5	16 12	1.9
30	7 59 22	150	+15 32.6	− 6.3	59.0	9 25.7	2.32	1 48	2.8	16 55	1.7
31	8 59 25	150	+12 29.9	− 8.9	59.9	10 21.6	2.33	3 0	3.1	17 33	1.5
Sept. 1	9 59 30	150	+ 8 32.0	−10.9	60.6	11 17.6	2.33	4 16	3.2	18 7	1.4
2	10 59 21	149	+ 3 55.3	−12.1	61.0	12 13.4	2.32	5 35	3.3	18 39	1.3

Tag	0h Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1940	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Sept. 2	10 30 2	57 30	+ 6 14.6	4 37.6	60 49.3	13.9	16 35.8	3.8	156.879	−2.954	29.2
3	11 27 32	57 21	+ 1 37.0	4 44.1	61 3.2	4.4	16 39.6	1.2	171.908	−1.735	0.8
4	12 24 53	57 23	− 3 7.1	4 30.0	60 58.8	21.3	16 38.4	5.8	186.946	−0.392	1.8
5	13 22 16	57 30	− 7 37.1	3 57.4	60 37.5	34.7	16 32.6	9.4	201.854	+0.968	2.8
6	14 19 46	57 36	−11 34.5	3 10.0	60 2.8	43.5	16 23.2	11.9	216.518	+2.244	3.8
7	15 17 22	57 27	−14 44.5	2 12.5	59 19.3	47.6	16 11.3	13.0	230.864	+3.350	4.8
8	16 14 49	56 52	−16 57.0	1 10.3	58 31.7	47.8	15 58.3	13.0	244.856	+4.228	5.8
9	17 11 41	55 46	−18 7.3	0 8.0	57 43.9	45.2	15 45.3	12.3	258.487	+4.842	6.8
10	18 7 27	54 13	−18 15.3	0 50.2	56 58.7	40.8	15 33.0	11.1	271.776	+5.179	7.8
11	19 1 40	52 21	−17 25.1	1 41.6	56 17.9	35.4	15 21.9	9.7	284.754	+5.241	8.8
12	19 54 1	50 25	−15 43.5	2 24.2	55 42.5	30.0	15 12.2	8.1	297.460	+5.042	9.8
13	20 44 26	48 36	−13 19.3	2 57.8	55 12.5	24.6	15 4.1	6.7	309.931	+4.607	10.8
14	21 33 2	47 6	−10 21.5	3 22.0	54 47.9	19.5	14 57.4	5.4	322.203	+3.966	11.8
15	22 20 8	45 58	− 6 59.5	3 37.0	54 28.4	14.6	14 52.0	3.9	334.312	+3.153	12.8
16	23 6 6	45 18	− 3 22.5	3 43.4	54 13.8	9.8	14 48.1	2.7	346.289	+2.208	13.8
17	23 51 24	45 8	+ 0 20.9	3 41.4	54 4.0	4.7	14 45.4	1.3	358.167	+1.174	14.8
18	0 36 32	45 26	+ 4 2.3	3 31.6	53 59.3	0.9	14 44.1	0.3	9.979	+0.093	15.8
19	1 21 58	46 11	+ 7 33.9	3 13.7	54 0.2	7.2	14 44.4	1.9	21.764	−0.991	16.8
20	2 8 9	47 19	+10 47.6	2 48.3	54 7.4	14.2	14 46.3	3.9	33.566	−2.034	17.8
21	2 55 28	48 47	+13 35.9	2 15.1	54 21.6	22.1	14 50.2	6.0	45.437	−2.997	18.8
22	3 44 15	50 25	+15 51.0	1 34.5	54 43.7	30.5	14 56.2	8.3	57.434	−3.839	19.8
23	4 34 40	52 5	+17 25.5	0 46.9	55 14.2	38.9	15 4.5	10.6	69.625	−4.523	20.8
24	5 26 45	53 37	+18 12.4	0 6.8	55 53.1	46.8	15 15.1	12.8	82.077	−5.010	21.8
25	6 20 22	54 51	+18 5.6	1 4.6	56 39.9	53.3	15 27.9	14.5	94.859	−5.266	22.8
26	7 15 13	55 46	+17 1.0	2 3.5	57 33.2	56.8	15 42.4	15.5	108.032	−5.258	23.8
27	8 10 59	56 23	+14 57.5	2 59.7	58 30.0	56.5	15 57.9	15.4	121.640	−4.961	24.8
28	9 7 22	56 47	+11 57.8	3 48.4	59 26.5	50.8	16 13.3	13.8	135.699	−4.362	25.8
29	10 4 9	57 9	+ 8 9.4	4 24.6	60 17.3	39.5	16 27.1	10.8	150.189	−3.471	26.8
30	11 1 18	57 38	+ 3 44.8	4 43.5	60 56.8	23.1	16 37.9	6.3	165.041	−2.328	27.8
Okt. 1	11 58 56	58 14	− 0 58.7	4 41.8	61 19.9	3.4	16 44.2	0.9	180.144	−1.003	28.8
2	12 57 10	58 55	− 5 40.5	4 18.9	61 23.3	16.7	16 45.1	4.6	195.351	+0.401	0.5
3	13 56 5	59 26	− 9 59.4	3 36.3	61 6.6	34.2	16 40.5	9.3	210.502	+1.772	1.5
4	14 55 31	59 32	−13 35.7	2 39.1	60 32.4	47.0	16 31.2	12.8	225.445	+3.003	2.5
5	15 55 3	59 1	−16 14.8	1 33.9	59 45.4	54.3	16 18.4	14.8	240.061	+4.009	3.5
6	16 54 4	57 43	−17 48.7	0 27.1	58 51.1	56.1	16 3.6	15.3	254.271	+4.738	4.5
7	17 51 47	55 50	−18 15.8	0 35.4	57 55.0	53.7	15 48.3	14.6	268.043	+5.168	5.5
8	18 47 37	53 32	−17 40.4	1 30.0	57 1.3	48.3	15 33.7	13.2	281.383	+5.302	6.5
9	19 41 9	51 12	−16 10.4	2 15.0	56 13.0	41.2	15 20.5	11.2	294.327	+5.161	7.5
10	20 32 21	49 3	−13 55.4	2 50.2	55 31.8	33.2	15 9.3	9.0	306.929	+4.772	8.5
11	21 21 24	47 16	−11 5.2	3 15.8	54 58.6	25.4	15 0.3	7.0	319.251	+4.170	9.5
12	22 8 40	46 0	− 7 49.4	3 32.8	54 33.2	17.9	14 53.3	4.8	331.357	+3.391	10.5
13	22 54 40		− 4 16.6		54 15.3		14 48.5		343.308	+2.473	11.5

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1940	h m s	s	° ′	′	″	h m	m	h m	m	h m	m
Sept. 2	10 59 21	149	+ 3 55.3	−12.1	61.0	12 13.4	2.32	5 35	3.3	18 39	1.3
3	11 58 58	149	− 0 59.2	−12.3	61.1	13 8.9	2.31	6 55	3.3	19 11	1.3
4	12 58 31	149	− 5 48.4	−11.6	60.8	14 4.4	2.31	8 15	3.3	19 43	1.4
5	13 58 11	149	−10 10.3	−10.1	60.3	14 59.9	2.32	9 34	3.2	20 17	1.5
6	14 58 0	150	−13 46.6	− 7.9	59.6	15 55.7	2.32	10 50	3.1	20 55	1.7
7	15 57 45	149	−16 24.0	− 5.2	58.8	16 51.3	2.31	12 1	2.9	21 37	1.9
8	16 57 1	147	−17 55.1	− 2.4	57.9	17 46.5	2.28	13 7	2.6	22 24	2.1
9	17 55 12	144	−18 18.7	+ 0.4	57.1	18 40.6	2.22	14 5	2.2	23 17	2.3
10	18 51 45	139	−17 38.5	+ 2.9	56.4	19 33.0	2.15	14 54	1.9	— —	—
11	19 46 16	134	−16 1.8	+ 5.1	55.8	20 23.5	2.06	15 37	1.6	0 14	2.5
12	20 38 38	128	−13 38.0	+ 6.8	55.3	21 11.8	1.97	16 13	1.4	1 15	2.6
13	21 28 59	124	−10 37.6	+ 8.1	54.8	21 58.0	1.89	16 44	1.2	2 17	2.6
14	22 17 38	120	− 7 10.8	+ 9.0	54.5	22 42.6	1.83	17 12	1.1	3 19	2.6
15	23 5 1	117	− 3 27.8	+ 9.5	54.2	23 26.0	1.79	17 37	1.0	4 22	2.6
16	— — —	—	— —	—	—	— —	—	18 1	1.0	5 24	2.6
17	23 51 40	116	+ 0 22.2	+ 9.6	54.1	0 8.5	1.77	18 25	1.0	6 25	2.6
18	0 38 8	116	+ 4 10.0	+ 9.3	54.0	0 50.9	1.77	18 50	1.1	7 26	2.5
19	1 24 56	118	+ 7 47.1	+ 8.7	54.0	1 33.7	1.80	19 16	1.1	8 27	2.5
20	2 12 36	121	+11 4.9	+ 7.7	54.1	2 17.3	1.84	19 45	1.3	9 28	2.5
21	3 1 33	124	+13 55.0	+ 6.4	54.4	3 2.2	1.90	20 18	1.5	10 28	2.5
22	3 52 9	129	+16 8.9	+ 4.7	54.8	3 48.7	1.98	20 56	1.7	11 26	2.5
23	4 44 34	133	+17 38.4	+ 2.7	55.4	4 37.0	2.05	21 40	2.0	12 23	2.4
24	5 38 49	138	+18 15.7	+ 0.4	56.1	5 27.2	2.13	22 31	2.3	13 15	2.1
25	6 34 42	141	+17 54.3	− 2.2	56.9	6 19.0	2.19	23 31	2.6	14 3	1.9
26	7 31 53	144	+16 30.1	− 4.8	57.8	7 12.1	2.23	— —	—	14 47	1.7
27	8 29 58	146	+14 2.9	− 7.4	58.8	8 6.1	2.26	0 37	2.9	15 26	1.6
28	9 28 38	147	+10 37.2	− 9.7	59.8	9 0.7	2.29	1 49	3.1	16 1	1.4
29	10 27 44	148	+ 6 23.5	−11.4	60.6	9 55.7	2.30	3 5	3.2	16 34	1.3
30	11 27 18	150	+ 1 37.8	−12.3	61.2	10 51.2	2.32	4 24	3.3	17 6	1.3
Okt. 1	12 27 27	151	− 3 18.6	−12.3	61.4	11 47.2	2.35	5 45	3.4	17 38	1.4
2	13 28 21	153	− 8 2.1	−11.2	61.3	12 44.0	2.38	7 6	3.4	18 12	1.5
3	14 29 56	155	−12 9.1	− 9.2	60.8	13 41.5	2.40	8 26	3.3	18 49	1.6
4	15 31 54	155	−15 20.4	− 6.6	60.1	14 39.4	2.41	9 43	3.1	19 30	1.8
5	16 33 33	153	−17 23.5	− 3.6	59.2	15 36.9	2.38	10 53	2.8	20 18	2.1
6	17 34 4	149	−18 14.3	− 0.6	58.2	16 33.3	2.31	11 56	2.4	21 10	2.3
7	18 32 38	143	−17 55.8	+ 2.1	57.3	17 27.8	2.22	12 50	2.1	22 7	2.5
8	19 28 43	137	−16 36.1	+ 4.5	56.4	18 19.8	2.11	13 36	1.7	23 8	2.6
9	20 22 12	130	−14 25.8	+ 6.3	55.7	19 9.2	2.01	14 14	1.5	— —	—
10	21 13 14	125	−11 36.1	+ 7.7	55.1	19 56.2	1.91	14 47	1.3	0 10	2.6
11	22 2 14	120	− 8 17.6	+ 8.7	54.6	20 41.1	1.84	15 16	1.1	1 12	2.6
12	22 49 45	117	− 4 40.2	+ 9.3	54.3	21 24.6	1.79	15 42	1.0	2 14	2.6
13	23 36 24	116	− 0 52.7	+ 9.6	54.1	22 7.1	1.77	16 6	1.0	3 16	2.6

Mond 1940

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite	Alter
1940	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Okt. 13	22 54 40	45 15	− 4 16.6	3 41.4	54 15.3	11.2	14 48.5	3.1	343.308	+2.473	11.5
14	23 39 55	45 3	− 0 35.2	3 42.1	54 4.1	5.1	14 45.4	1.4	355.161	+1.456	12.5
15	0 24 58	45 20	+ 3 6.9	3 34.8	53 59.0	0.4	14 44.0	0.1	6.963	+0.381	13.5
16	1 10 18	46 5	+ 6 41.7	3 19.5	53 59.4	5.6	14 44.1	1.6	18.758	−0.708	14.5
17	1 56 23	47 11	+10 1.2	2 56.1	54 5.0	10.6	14 45.7	2.8	30.583	−1.769	15.5
18	2 43 34	48 31	+12 57.3	2 24.6	54 15.6	15.7	14 48.5	4.3	42.475	−2.758	16.5
19	3 32 5	49 58	+15 21.9	1 45.4	54 31.3	21.4	14 52.8	5.9	54.466	−3.633	17.5
20	4 22 3	51 22	+17 7.3	0 59.3	54 52.7	27.5	14 58.7	7.4	66.594	−4.355	18.5
21	5 13 25	52 33	+18 6.6	0 7.8	55 20.2	33.8	15 6.1	9.3	78.898	−4.887	19.5
22	6 5 58	53 26	+18 14.4	0 47.1	55 54.0	40.2	15 15.4	10.9	91.421	−5.198	20.5
23	6 59 24	54 0	+17 27.3	1 42.8	56 34.2	45.9	15 26.3	12.5	104.211	−5.260	21.5
24	7 53 24	54 23	+15 44.5	2 36.4	57 20.1	50.0	15 38.8	13.7	117.314	−5.054	22.5
25	8 47 47	54 42	+13 8.1	3 24.7	58 10.1	51.6	15 52.5	14.0	130.771	−4.570	23.5
26	9 42 29	55 7	+ 9 43.4	4 3.9	59 1.7	49.1	16 6.5	13.4	144.613	−3.811	24.5
27	10 37 36	55 49	+ 5 39.5	4 30.6	59 50.8	41.8	16 19.9	11.4	158.846	−2.800	25.5
28	11 33 25	56 51	+ 1 8.9	4 40.6	60 32.6	29.2	16 31.3	7.9	173.445	−1.584	26.5
29	12 30 16	58 10	− 3 31.7	4 31.0	61 1.8	12.4	16 39.2	3.4	188.343	−0.239	27.5
30	13 28 26	59 31	− 8 2.7	4 0.4	61 14.2	6.9	16 42.6	1.9	203.431	+1.139	28.5
31	14 27 57	60 34	−12 3.1	3 10.6	61 7.3	25.7	16 40.7	7.0	218.568	+2.439	0.1
Nov. 1	15 28 31	60 52	−15 13.7	2 6.8	60 41.6	41.4	16 33.7	11.3	233.595	+3.558	1.1
2	16 29 23	60 12	−17 20.5	0 56.4	60 0.2	52.1	16 22.4	14.2	248.363	+4.417	2.1
3	17 29 35	58 29	−18 16.9	0 12.7	59 8.1	57.2	16 8.2	15.5	262.754	+4.972	3.1
4	18 28 4	56 2	−18 4.2	1 14.2	58 10.9	57.0	15 52.7	15.6	276.697	+5.212	4.1
5	19 24 6	53 14	−16 50.0	2 4.9	57 13.9	52.8	15 37.1	14.3	290.168	+5.152	5.1
6	20 17 20	50 33	−14 45.1	2 43.9	56 21.1	45.6	15 22.8	12.5	303.187	+4.825	6.1
7	21 7 53	48 15	−12 1.2	3 12.0	55 35.5	36.8	15 10.3	10.0	315.807	+4.270	7.1
8	21 56 8	46 31	− 8 49.2	3 30.5	54 58.7	27.3	15 0.3	7.4	328.098	+3.532	8.1
9	22 42 39	45 25	− 5 18.7	3 40.7	54 31.4	17.9	14 52.9	4.9	340.144	+2.650	9.1
10	23 28 4	44 58	− 1 38.0	3 43.2	54 13.5	9.1	14 48.0	2.5	352.025	+1.666	10.1
11	0 13 2	45 8	+ 2 5.2	3 38.3	54 4.4	1.3	14 45.5	0.4	3.820	+0.619	11.1
12	0 58 10	45 50	+ 5 43.5	3 25.8	54 3.1	5.5	14 45.1	1.5	15.599	−0.451	12.1
13	1 44 0	47 0	+ 9 9.3	3 5.1	54 8.6	11.2	14 46.6	3.1	27.422	−1.503	13.1
14	2 31 0	48 27	+12 14.4	2 36.1	54 19.8	15.8	14 49.7	4.3	39.336	−2.495	14.1
15	3 19 27	50 2	+14 50.5	1 58.5	54 35.6	19.7	14 54.0	5.4	51.377	−3.384	15.1
16	4 9 29	51 30	+16 49.0	1 13.3	54 55.3	23.1	14 59.4	6.3	63.571	−4.128	16.1
17	5 0 59	52 39	+18 2.3	0 21.9	55 18.4	26.3	15 5.7	7.1	75.936	−4.689	17.1
18	5 53 38	53 24	+18 24.2	0 33.0	55 44.7	29.5	15 12.8	8.1	88.486	−5.033	18.1
19	6 47 2	53 40	+17 51.2	1 28.5	56 14.2	32.7	15 20.9	8.9	101.231	−5.134	19.1
20	7 40 42	53 37	+16 22.7	2 21.3	56 46.9	35.6	15 29.8	9.7	114.186	−4.977	20.1
21	8 34 19	53 25	+14 1.4	3 8.3	57 22.5	38.1	15 39.5	10.4	127.367	−4.556	21.1
22	9 27 44	53 21	+10 53.1	3 47.3	58 0.6	39.3	15 49.9	10.7	140.797	−3.879	22.1
23	10 21 5		+ 7 5.8		58 39.9		16 0.6		154.497	−2.969	23.1

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Okt. 13	23 36 24	116	− 0 52.7	+ 9.6	54.1	22 7.1	1.77	16 6	1.0	3 16	2.6
14	0 22 46	116	+ 2 56.1	+ 9.4	54.0	22 49.5	1.77	16 30	1.0	4 17	2.5
15	1 9 25	117	+ 6 37.7	+ 9.0	54.0	23 32.1	1.79	16 54	1.0	5 19	2.6
16	— — —	—	— —	—	—	— —	—	17 20	1.1	6 20	2.5
17	1 56 53	120	+10 3.3	+ 8.1	54.1	0 15.5	1.83	17 48	1.2	7 21	2.5
18	2 45 33	123	+13 4.1	+ 6.9	54.3	1 0.1	1.89	18 19	1.4	8 22	2.5
19	3 35 43	127	+15 31.1	+ 5.3	54.5	1 46.2	1.95	18 55	1.6	9 21	2.4
20	4 27 29	131	+17 15.9	+ 3.4	54.9	2 33.9	2.02	19 37	1.9	10 18	2.3
21	5 20 46	135	+18 10.9	+ 1.2	55.4	3 23.1	2.08	20 26	2.2	11 11	2.1
22	6 15 19	138	+18 10.1	− 1.3	56.0	4 13.5	2.12	21 21	2.4	12 0	1.9
23	7 10 47	140	+17 10.1	− 3.7	56.7	5 4.9	2.16	22 23	2.7	12 44	1.7
24	8 6 51	141	+15 10.6	− 6.2	57.5	5 56.9	2.17	23 30	2.9	13 23	1.6
25	9 3 18	142	+12 14.5	− 8.4	58.4	6 49.3	2.19	— —	—	13 59	1.4
26	10 0 6	143	+ 8 28.9	−10.3	59.3	7 42.0	2.20	0 41	3.1	14 31	1.3
27	10 57 29	144	+ 4 4.9	−11.6	60.1	8 35.3	2.24	1 57	3.2	15 2	1.3
28	11 55 46	147	− 0 41.9	−12.2	60.8	9 29.5	2.28	3 15	3.3	15 33	1.3
29	12 55 21	151	− 5 31.7	−11.8	61.2	10 24.9	2.35	4 34	3.3	16 5	1.4
30	13 56 28	155	−10 1.6	−10.5	61.2	11 22.0	2.40	5 55	3.3	16 40	1.5
31	14 59 0	158	−13 48.3	− 8.3	60.9	12 20.4	2.46	7 14	3.2	17 20	1.8
Nov. 1	16 2 20	159	−16 32.6	− 5.3	60.3	13 19.6	2.47	8 30	3.0	18 5	2.0
2	17 5 26	156	−18 2.7	− 2.1	59.5	14 18.6	2.43	9 39	2.7	18 56	2.3
3	18 7 3	151	−18 16.4	+ 1.0	58.5	15 16.1	2.35	10 40	2.3	19 53	2.5
4	19 6 9	144	−17 20.3	+ 3.6	57.5	16 11.1	2.23	11 31	1.9	20 55	2.6
5	20 2 13	136	−15 25.7	+ 5.8	56.6	17 3.1	2.10	12 13	1.6	21 58	2.7
6	20 55 13	129	−12 46.2	+ 7.4	55.8	17 52.0	1.98	12 49	1.4	23 2	2.6
7	21 45 32	123	− 9 34.0	+ 8.5	55.1	18 38.3	1.88	13 19	1.2	— —	—
8	22 33 48	119	− 6 0.3	+ 9.2	54.6	19 22.5	1.81	13 46	1.1	0 5	2.6
9	23 20 43	116	− 2 14.3	+ 9.6	54.3	20 5.4	1.77	14 11	1.0	1 7	2.6
10	0 7 2	116	+ 1 35.5	+ 9.5	54.1	20 47.6	1.76	14 35	1.0	2 9	2.6
11	0 53 26	117	+ 5 21.2	+ 9.2	54.0	21 30.0	1.78	14 58	1.0	3 10	2.6
12	1 40 34	119	+ 8 54.6	+ 8.5	54.1	22 13.0	1.82	15 23	1.1	4 11	2.6
13	2 28 56	123	+12 6.9	+ 7.5	54.3	22 57.3	1.88	15 50	1.2	5 13	2.5
14	3 18 53	127	+14 48.8	+ 6.0	54.6	23 43.2	1.95	16 21	1.3	6 14	2.5
15	— — —	—	— —	—	—	— —	—	16 55	1.6	7 14	2.5
16	4 10 34	131	+16 51.1	+ 4.1	54.9	0 30.8	2.02	17 35	1.8	8 13	2.4
17	5 3 53	135	+18 4.9	+ 2.0	55.3	1 20.1	2.08	18 22	2.1	9 8	2.2
18	5 58 28	138	+18 23.5	− 0.4	55.8	2 10.6	2.12	19 15	2.3	9 59	2.0
19	6 53 48	139	+17 43.0	− 2.9	56.3	3 1.8	2.15	20 15	2.6	10 44	1.8
20	7 49 24	139	+16 3.3	− 5.4	56.9	3 53.3	2.15	21 20	2.8	11 25	1.6
21	8 44 54	138	+13 27.7	− 7.6	57.5	4 44.8	2.14	22 28	2.9	12 0	1.4
22	9 40 11	138	+10 3.2	− 9.4	58.2	5 36.0	2.13	23 40	3.0	12 33	1.3
23	10 35 28	139	+ 5 59.4	−10.8	58.8	6 27.1	2.14	— —	—	13 3	1.2

Mond 1940

Tag	0ʰ Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1940	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Nov. 23	10 21 5	53 38	+ 7 5.8	4 15.4	58 39.9	38.2	16 0.6	10.4	154.497	−2.969	23.1
24	11 14 43	54 23	+ 2 50.4	4 30.5	59 18.1	34.0	16 11.0	9.2	168.481	−1.865	24.1
25	12 9 6	55 39	− 1 40.1	4 29.7	59 52.1	26.2	16 20.2	7.2	182.750	−0.625	25.1
26	13 4 45	57 19	− 6 9.8	4 11.0	60 18.3	14.6	16 27.4	3.9	197.279	+0.675	26.1
27	14 2 4	59 4	−10 20.8	3 33.6	60 32.9	0.0	16 31.3	0.1	212.009	+1.946	27.1
28	15 1 8	60 27	−13 54.4	2 38.8	60 32.9	15.8	16 31.4	4.3	226.844	+3.092	28.1
29	16 1 35	60 59	−16 33.2	1 31.9	60 17.1	30.6	16 27.1	8.4	241.660	+4.025	29.1
30	17 2 34	60 20	−18 5.1	0 20.0	59 46.5	42.6	16 18.7	11.6	256.318	+4.680	0.6
Dez. 1	18 2 54	58 31	−18 25.1	0 48.4	59 3.9	50.2	16 7.1	13.7	270.689	+5.024	1.6
2	19 1 25	55 54	−17 36.7	1 47.5	58 13.7	53.0	15 53.4	14.4	284.676	+5.054	2.6
3	19 57 19	52 58	−15 49.2	2 33.8	57 20.7	51.4	15 39.0	14.0	298.224	+4.796	3.6
4	20 50 17	50 11	−13 15.4	3 7.2	56 29.3	46.0	15 25.0	12.6	311.324	+4.290	4.6
5	21 40 28	47 53	−10 8.2	3 29.2	55 43.3	38.2	15 12.4	10.4	324.008	+3.585	5.6
6	22 28 21	46 13	− 6 39.0	3 41.3	55 5.1	28.6	15 2.0	7.7	336.340	+2.729	6.6
7	23 14 34	45 16	− 2 57.7	3 45.3	54 36.5	18.3	14 54.3	5.0	348.399	+1.768	7.6
8	23 59 50	45 2	+ 0 47.6	3 42.0	54 18.2	8.1	14 49.3	2.2	0.278	+0.745	8.6
9	0 44 52	45 27	+ 4 29.6	3 31.6	54 10.1	1.5	14 47.1	0.4	12.068	−0.302	9.6
10	1 30 19	46 29	+ 8 1.2	3 13.8	54 11.6	10.1	14 47.5	2.7	23.857	−1.334	10.6
11	2 16 48	47 58	+11 15.0	2 48.0	54 21.7	17.3	14 50.2	4.7	35.724	−2.313	11.6
12	3 4 46	49 44	+14 3.0	2 13.8	54 39.0	22.8	14 54.9	6.2	47.734	−3.198	12.6
13	3 54 30	51 30	+16 16.8	1 30.7	55 1.8	26.6	15 1.1	7.3	59.935	−3.949	13.6
14	4 46 0	53 4	+17 47.5	0 40.3	55 28.4	28.8	15 8.4	7.8	72.359	−4.526	14.6
15	5 39 4	54 6	+18 27.8	0 15.7	55 57.2	29.5	15 16.2	8.1	85.017	−4.891	15.6
16	6 33 10	54 33	+18 12.1	1 13.3	56 26.7	29.3	15 24.3	7.9	97.906	−5.015	16.6
17	7 27 43	54 25	+16 58.8	2 8.7	56 56.0	28.2	15 32.2	7.7	111.008	−4.879	17.6
18	8 22 8	53 55	+14 50.1	2 58.1	57 24.2	26.9	15 39.9	7.4	124.301	−4.478	18.6
19	9 16 3	53 21	+11 52.0	3 38.2	57 51.1	25.4	15 47.3	6.9	137.763	−3.825	19.6
20	10 9 24	52 58	+ 8 13.8	4 7.0	58 16.5	23.7	15 54.2	6.4	151.380	−2.947	20.6
21	11 2 22	53 3	+ 4 6.8	4 23.1	58 40.2	21.4	16 0.6	5.9	165.145	−1.887	21.6
22	11 55 25	53 42	− 0 16.3	4 25.1	59 1.6	18.1	16 6.5	4.9	179.058	−0.704	22.6
23	12 49 7	54 53	− 4 41.4	4 11.9	59 19.7	13.2	16 11.4	3.6	193.120	+0.534	23.6
24	13 44 0	56 27	− 8 53.3	3 42.9	59 32.9	6.5	16 15.0	1.8	207.324	+1.751	24.6
25	14 40 27	58 7	−12 36.2	2 58.0	59 39.4	2.2	16 16.8	0.6	221.645	+2.865	25.6
26	15 38 34	59 23	−15 34.2	1 59.8	59 37.2	12.3	16 16.2	3.4	236.036	+3.802	26.6
27	16 37 57	59 49	−17 34.0	0 52.5	59 24.9	22.7	16 12.8	6.2	250.422	+4.495	27.6
28	17 37 46	59 8	−18 26.5	0 16.7	59 2.2	32.1	16 6.6	8.7	264.708	+4.900	28.6
29	18 36 54	57 23	−18 9.8	1 21.1	58 30.1	39.3	15 57.9	10.7	278.794	+5.000	0.1
30	19 34 17	54 56	−16 48.7	2 15.2	57 50.8	43.4	15 47.2	11.9	292.591	+4.803	1.1
31	20 29 13	52 14	−14 33.5	2 56.3	57 7.4	44.0	15 35.3	11.9	306.036	+4.340	2.1
32	21 21 27		−11 37.2		56 23.4		15 23.4		319.098	+3.659	3.1

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1940	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 23	10 35 28	139	+ 5 59.4	−10.8	58.8	6 27.1	2.14	— —	—	13 3	1.2
24	11 31 11	140	+ 1 28.9	−11.6	59.5	7 18.8	2.17	0 54	3.1	13 33	1.2
25	12 27 55	144	− 3 13.0	−11.7	60.0	8 11.4	2.23	2 9	3.2	14 2	1.3
26	13 26 16	148	− 7 48.1	−11.0	60.4	9 5.7	2.30	3 27	3.2	14 35	1.4
27	14 26 33	153	−11 55.7	− 9.4	60.6	10 1.9	2.38	4 45	3.2	15 10	1.6
28	15 28 42	157	−15 14.8	− 7.0	60.5	10 59.9	2.45	6 2	3.1	15 52	1.9
29	16 32 2	159	−17 28.0	− 4.0	60.1	11 59.2	2.48	7 15	2.9	16 39	2.1
30	17 35 20	157	−18 24.8	− 0.7	59.4	12 58.4	2.44	8 22	2.6	17 35	2.4
Dez. 1	18 37 9	152	−18 4.8	+ 2.3	58.6	13 56.1	2.35	9 19	2.2	18 35	2.6
2	19 36 21	144	−16 36.3	+ 4.9	57.7	14 51.2	2.23	10 7	1.8	19 40	2.7
3	20 32 20	136	−14 12.9	+ 6.9	56.8	15 43.1	2.10	10 47	1.5	20 45	2.7
4	21 25 7	128	−11 9.3	+ 8.3	55.9	16 31.8	1.97	11 20	1.3	21 51	2.7
5	22 15 10	122	− 7 39.0	+ 9.2	55.2	17 17.8	1.87	11 49	1.1	22 55	2.6
6	23 3 11	118	− 3 53.4	+ 9.6	54.7	18 1.7	1.80	12 15	1.0	23 57	2.6
7	23 49 58	116	− 0 1.7	+ 9.7	54.4	18 44.4	1.77	12 39	1.0	— —	—
8	0 36 18	116	+ 3 48.0	+ 9.4	54.2	19 26.7	1.76	13 3	1.0	0 59	2.6
9	1 22 59	118	+ 7 28.3	+ 8.9	54.2	20 9.3	1.80	13 27	1.0	2 0	2.5
10	2 10 42	121	+10 51.1	+ 8.0	54.3	20 53.0	1.85	13 53	1.1	3 2	2.5
11	2 59 58	126	+13 47.9	+ 6.7	54.6	21 38.2	1.92	14 22	1.3	4 3	2.5
12	3 51 10	131	+16 9.2	+ 5.0	55.0	22 25.3	2.00	14 54	1.5	5 4	2.5
13	4 44 21	135	+17 45.4	+ 2.9	55.5	23 14.4	2.09	15 32	1.7	6 3	2.4
14	— — —	—	— —	—	—	— —	—	16 17	2.0	7 1	2.3
15	5 39 15	139	+18 27.8	+ 0.5	56.0	0 5.3	2.15	17 8	2.3	7 55	2.1
16	6 35 20	141	+18 10.3	− 2.0	56.5	0 57.3	2.18	18 6	2.6	8 43	1.9
17	7 31 53	141	+16 50.9	− 4.6	57.0	1 49.7	2.18	19 11	2.8	9 26	1.7
18	8 28 14	140	+14 32.3	− 6.9	57.5	2 42.0	2.17	20 19	2.9	10 4	1.5
19	9 24 0	139	+11 21.9	− 8.9	57.9	3 33.7	2.14	21 30	3.0	10 38	1.3
20	10 19 9	137	+ 7 30.2	−10.3	58.3	4 24.7	2.12	22 42	3.0	11 8	1.2
21	11 13 58	137	+ 3 10.1	−11.2	58.8	5 15.5	2.12	23 56	3.1	11 37	1.2
22	12 9 0	138	− 1 24.1	−11.5	59.1	6 6.4	2.14	— —	—	12 6	1.2
23	13 4 55	141	− 5 56.6	−11.1	59.4	6 58.2	2.19	1 10	3.1	12 36	1.3
24	14 2 18	146	−10 10.3	− 9.9	59.6	7 51.5	2.26	2 26	3.1	13 9	1.4
25	15 1 32	150	−13 47.3	− 8.0	59.7	8 46.7	2.33	3 41	3.1	13 46	1.7
26	16 2 31	154	−16 30.4	− 5.5	59.6	9 43.6	2.40	4 54	2.9	14 29	1.9
27	17 4 37	156	−18 6.0	− 2.4	59.3	10 41.6	2.42	6 2	2.7	15 19	2.2
28	18 6 39	154	−18 26.9	+ 0.7	58.8	11 39.5	2.39	7 4	2.4	16 16	2.5
29	19 7 18	149	−17 34.7	+ 3.6	58.2	12 36.0	2.31	7 57	2.0	17 18	2.7
30	20 5 31	142	−15 38.5	+ 6.0	57.4	13 30.2	2.19	8 41	1.7	18 24	2.8
31	21 0 47	134	−12 52.1	+ 7.8	56.7	14 21.3	2.07	9 18	1.4	19 31	2.6

Mond 1940

Phasen des Mondes

1940		Welt-Zeit h	m		1940		Welt-Zeit h	m	
Jan.	2	4	56	Letztes Viertel	Juli	5	11	28	Neumond
	9	13	53	Neumond		12	6	35	Erstes Viertel
	17	18	21	Erstes Viertel		19	9	55	Vollmond
	24	23	22	Vollmond		27	11	29	Letztes Viertel
	31	14	47	Letztes Viertel	Aug.	3	20	9	Neumond
Febr.	8	7	45	Neumond		10	12	0	Erstes Viertel
	16	12	55	Erstes Viertel		17	23	2	Vollmond
	23	9	55	Vollmond		26	3	33	Letztes Viertel
März	1	2	35	Letztes Viertel	Sept.	2	4	15	Neumond
	9	2	23	Neumond		8	19	32	Erstes Viertel
	17	3	25	Erstes Viertel		16	14	41	Vollmond
	23	19	33	Vollmond		24	17	47	Letztes Viertel
	30	16	20	Letztes Viertel	Okt.	1	12	41	Neumond
April	7	20	18	Neumond		8	6	18	Erstes Viertel
	15	13	46	Erstes Viertel		16	8	15	Vollmond
	22	4	37	Vollmond		24	6	4	Letztes Viertel
	29	7	49	Letztes Viertel		30	22	3	Neumond
Mai	7	12	7	Neumond	Nov.	6	21	8	Erstes Viertel
	14	20	51	Erstes Viertel		15	2	23	Vollmond
	21	13	33	Vollmond		22	16	36	Letztes Viertel
	29	0	40	Letztes Viertel		29	8	42	Neumond
Juni	6	1	5	Neumond	Dez.	6	16	1	Erstes Viertel
	13	1	59	Erstes Viertel		14	19	38	Vollmond
	19	23	2	Vollmond		22	1	45	Letztes Viertel
	27	18	13	Letztes Viertel		28	20	56	Neumond

Mond in Erdnähe

1940		Welt-Zeit h
Jan.	26	11
Febr.	23	22
März	23	10
April	20	19
Mai	18	19
Juni	14	15
Juli	9	19
Aug.	6	3
Sept.	3	6
Okt.	1	16
Okt.	30	4
Nov.	27	12
Dez.	25	6

Mond in Erdferne

1940		Welt-Zeit h
Jan.	14	12
Febr.	11	2
März	9	5
April	5	9
Mai	2	23
Mai	30	17
Juni	27	11
Juli	25	5
Aug.	21	22
Sept.	18	8
Okt.	15	10
Nov.	11	16
Dez.	9	8

Tag		0h Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	17 19 46.63	6 11.20	−22 43 15.9	13 16.8	0.101 415	4 425	10 46.7
	1	17 25 57.83	6 15.34	22 56 32.7	12 17.6	0.105 840	4 176	10 49.0
	2	17 32 13.17	6 19.20	23 8 50.3	11 16.0	0.110 016	3 938	10 51.3
	3	17 38 32.37	6 22.79	23 20 6.3	10 11.9	0.113 954	3 709	10 53.7
	4	17 44 55.16	6 26.14	23 30 18.2	9 5.7	0.117 663	3 489	10 56.2
	5	17 51 21.30	6 29.28	23 39 23.9	7 57.6	0.121 152	3 276	10 58.7
	6	17 57 50.58	6 32.21	−23 47 21.5	6 47.6	0.124 428	3 070	11 1.3
	7	18 4 22.79	6 34.97	23 54 9.1	5 36.0	0.127 498	2 871	11 3.9
	8	18 10 57.76	6 37.53	23 59 45.1	4 22.8	0.130 369	2 679	11 6.6
	9	18 17 35.29	6 39.94	24 4 7.9	3 8.1	0.133 048	2 492	11 9.3
	10	18 24 15.23	6 42.18	24 7 16.0	1 52.0	0.135 540	2 309	11 12.0
	11	18 30 57.41	6 44.27	24 9 8.0	0 34.7	0.137 849	2 131	11 14.8
	12	18 37 41.68	6 46.24	−24 9 42.7	0 43.8	0.139 980	1 957	11 17.6
	13	18 44 27.92	6 48.07	24 8 58.9	2 3.6	0.141 937	1 787	11 20.5
	14	18 51 15.99	6 49.76	24 6 55.3	3 24.2	0.143 724	1 618	11 23.3
	15	18 58 5.75	6 51.33	24 3 31.1	4 46.1	0.145 342	1 452	11 26.2
	16	19 4 57.08	6 52.78	23 58 45.0	6 8.9	0.146 794	1 288	11 29.2
	17	19 11 49.86	6 54.12	23 52 36.1	7 32.6	0.148 082	1 125	11 32.1
	18	19 18 43.98	6 55.34	−23 45 3.5	8 57.1	0.149 207	963	11 35.1
	19	19 25 39.32	6 56.46	23 36 6.4	10 22.4	0.150 170	800	11 38.1
	20	19 32 35.78	6 57.49	23 25 44.0	11 48.6	0.150 970	638	11 41.1
	21	19 39 33.27	6 58.40	23 13 55.4	13 15.6	0.151 608	475	11 44.1
	22	19 46 31.67	6 59.22	23 0 39.8	14 43.1	0.152 083	310	11 47.2
	23	19 53 30.89	6 59.96	22 45 56.7	16 11.4	0.152 393	142	11 50.2
	24	20 0 30.85	7 0.59	−22 29 45.3	17 40.1	0.152 535	28	11 53.3
	25	20 7 31.44	7 1.14	22 12 5.2	19 9.5	0.152 507	201	11 56.4
	26	20 14 32.58	7 1.60	21 52 55.7	20 39.5	0.152 306	378	11 59.5
	27	20 21 34.18	7 1.97	21 32 16.2	22 9.7	0.151 928	561	12 2.6
	28	20 28 36.15	7 2.25	21 10 6.5	23 40.3	0.151 367	750	12 5.7
	29	20 35 38.40	7 2.45	20 46 26.2	25 11.3	0.150 617	945	12 8.8
	30	20 42 40.85	7 2.54	−20 21 14.9	26 42.3	0.149 672	1 148	12 11.9
	31	20 49 43.39	7 2.53	19 54 32.6	28 13.5	0.148 524	1 358	12 15.0
Febr.	1	20 56 45.92	7 2.41	19 26 19.1	29 44.6	0.147 166	1 579	12 18.1
	2	21 3 48.33	7 2.16	18 56 34.5	31 15.4	0.145 587	1 810	12 21.2
	3	21 10 50.49	7 1.78	18 25 19.1	32 45.8	0.143 777	2 053	12 24.3
	4	21 17 52.27	7 1.25	17 52 33.3	34 15.8	0.141 724	2 309	12 27.4
	5	21 24 53.52	7 0.55	−17 18 17.5	35 44.6	0.139 415	2 579	12 30.5
	6	21 31 54.07	6 59.64	16 42 32.9	37 12.4	0.136 836	2 863	12 33.5
	7	21 38 53.71	6 58.49	16 5 20.5	38 38.7	0.133 973	3 166	12 36.6
	8	21 45 52.20	6 57.09	15 26 41.8	40 3.0	0.130 807	3 486	12 39.6
	9	21 52 49.29	6 55.34	14 46 38.8	41 24.7	0.127 321	3 827	12 42.6
	10	21 59 44.63		−14 5 14.1		0.123 494		12 45.6

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	
1940	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	21 59 44.63	6 53.24	−14 5 14.1	42 43.6	0.123 494	4 187	12 45.6
11	22 6 37.87	6 50.70	13 22 30.5	43 58.7	0.119 307	4 570	12 48.5
12	22 13 28.57	6 47.61	12 38 31.8	45 9.2	0.114 737	4 976	12 51.4
13	22 20 16.18	6 43.93	11 53 22.6	46 14.4	0.109 761	5 405	12 54.2
14	22 27 0.11	6 39.56	11 7 8.2	47 13.0	0.104 356	5 861	12 57.0
15	22 33 39.67	6 34.33	10 19 55.2	48 3.9	0.098 495	6 339	12 59.6
16	22 40 14.00	6 28.18	− 9 31 51.3	48 46.0	0.092 156	6 843	13 2.2
17	22 46 42.18	6 20.95	8 43 5.3	49 17.7	0.085 313	7 368	13 4.7
18	22 53 3.13	6 12.45	7 53 47.6	49 37.5	0.077 945	7 913	13 7.0
19	22 59 15.58	6 2.61	7 4 10.1	49 43.7	0.070 032	8 477	13 9.2
20	23 5 18.19	5 51.22	6 14 26.4	49 35.1	0.061 555	9 051	13 11.2
21	23 11 9.41	5 38.17	5 24 51.3	49 9.6	0.052 504	9 633	13 13.0
22	23 16 47.58	5 23.31	− 4 35 41.7	48 26.0	0.042 871	10 214	13 14.6
23	23 22 10.89	5 6.55	3 47 15.7	47 23.0	0.032 657	10 787	13 15.9
24	23 27 17.44	4 47.78	2 59 52.7	45 59.2	0.021 870	11 340	13 16.9
25	23 32 5.22	4 26.98	2 13 53.5	44 13.9	0.010 530	11 864	13 17.6
26	23 36 32.20	4 4.17	1 29 39.6	42 6.7	9.998 666	12 348	13 17.9
27	23 40 36.37	3 39.34	0 47 32.9	39 37.3	9.986 318	12 778	13 17.8
28	23 44 15.71	3 12.66	− 0 7 55.6	36 45.8	9.973 540	13 144	13 17.2
29	23 47 28.37	2 44.26	+ 0 28 50.2	33 33.2	9.960 396	13 431	13 16.2
März 1	23 50 12.63	2 14.38	1 2 23.4	30 0.2	9.946 965	13 629	13 14.7
2	23 52 27.01	1 43.29	1 32 23.6	26 8.4	9.933 336	13 726	13 12.8
3	23 54 10.30	1 11.38	1 58 32.0	21 59.7	9.919 610	13 712	13 10.3
4	23 55 21.68	0 39.02	2 20 31.7	17 36.4	9.905 898	13 579	13 7.2
5	23 56 0.70	0 6.68	+ 2 38 8.1	13 1.2	9.892 319	13 316	13 3.6
6	23 56 7.38	0 25.11	2 51 9.3	8 17.7	9.879 003	12 923	12 59.5
7	23 55 42.27	0 55.78	2 59 27.0	3 29.4	9.866 080	12 393	12 54.9
8	23 54 46.49	1 24.77	3 2 56.4	1 18.9	9.853 687	11 729	12 49.8
9	23 53 21.72	1 51.47	3 1 37.5	6 2.4	9.841 958	10 933	12 44.2
10	23 51 30.25	2 15.29	2 55 35.1	10 35.9	9.831 025	10 016	12 38.2
11	23 49 14.96	2 35.73	+ 2 44 59.2	14 53.6	9.821 009	8 986	12 31.9
12	23 46 39.23	2 52.31	2 30 5.6	18 50.2	9.812 023	7 864	12 25.2
13	23 43 46.92	3 4.72	2 11 15.4	22 20.5	9.804 159	6 666	12 18.3
14	23 40 42.20	3 12.72	1 48 54.9	25 20.1	9.797 493	5 416	12 11.2
15	23 37 29.48	3 16.26	1 23 34.8	27 45.7	9.792 077	4 139	12 4.1
16	23 34 13.22	3 15.42	0 55 49.1	29 34.9	9.787 938	2 861	11 56.9
17	23 30 57.80	3 10.42	+ 0 26 14.2	30 47.2	9.785 077	1 606	11 49.8
18	23 27 47.38	3 1.61	− 0 4 33.0	31 23.0	9.783 471	396	11 42.8
19	23 24 45.77	2 49.43	0 35 56.0	31 24.0	9.783 075	751	11 35.9
20	23 21 56.34	2 34.38	1 7 20.0	30 53.1	9.783 826	1 818	11 29.3
21	23 19 21.96	2 17.00	1 38 13.1	29 53.9	9.785 644	2 797	11 22.9
22	23 17 4.96		− 2 8 7.0		9.788 441		11 16.9

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
März 22	23 17 4.96	1 57.81	−2 8 7.0	28 30.1	9.788 441	3 678	11 16.9
23	23 15 7.15	1 37.32	2 36 37.1	26 46.1	9.792 119	4 460	11 11.2
24	23 13 29.83	1 16.00	3 3 23.2	24 45.9	9.796 579	5 144	11 5.8
25	23 12 13.83	0 54.28	3 28 9.1	22 33.4	9.801 723	5 734	11 0.8
26	23 11 19.55	0 32.48	3 50 42.5	20 11.7	9.807 457	6 231	10 56.1
27	23 10 47.07	0 10.90	4 10 54.2	17 44.2	9.813 688	6 646	10 51.8
28	23 10 36.17	0 10.21	−4 28 38.4	15 13.0	9.820 334	6 986	10 47.8
29	23 10 46.38	0 30.70	4 43 51.4	12 40.6	9.827 320	7 257	10 44.2
30	23 11 17.08	0 50.42	4 56 32.0	10 8.5	9.834 577	7 467	10 40.9
31	23 12 7.50	1 9.31	5 6 40.5	7 37.9	9.842 044	7 625	10 38.0
April 1	23 13 16.81	1 27.27	5 14 18.4	5 9.9	9.849 669	7 738	10 35.4
2	23 14 44.08	1 44.34	5 19 28.3	2 45.0	9.857 407	7 811	10 33.0
3	23 16 28.42	2 0.50	−5 22 13.3	0 24.0	9.865 218	7 851	10 30.9
4	23 18 28.92	2 15.71	5 22 37.3	1 53.1	9.873 069	7 861	10 29.1
5	23 20 44.63	2 30.08	5 20 44.2	4 5.8	9.880 930	7 849	10 27.5
6	23 23 14.71	2 43.61	5 16 38.4	6 14.4	9.888 779	7 817	10 26.2
7	23 25 58.32	2 56.32	5 10 24.0	8 18.5	9.896 596	7 769	10 25.0
8	23 28 54.64	3 8.29	5 2 5.5	10 18.4	9.904 365	7 709	10 24.1
9	23 32 2.93	3 19.58	−4 51 47.1	12 14.3	9.912 074	7 637	10 23.4
10	23 35 22.51	3 30.21	4 39 32.8	14 5.9	9.919 711	7 556	10 22.9
11	23 38 52.72	3 40.26	4 25 26.9	15 53.8	9.927 267	7 469	10 22.5
12	23 42 32.98	3 49.78	4 9 33.1	17 37.8	9.934 736	7 378	10 22.3
13	23 46 22.76	3 58.78	3 51 55.3	19 18.4	9.942 114	7 282	10 22.3
14	23 50 21.54	4 7.38	3 32 36.9	20 55.5	9.949 396	7 183	10 22.4
15	23 54 28.92	4 15.57	−3 11 41.4	22 29.2	9.956 579	7 082	10 22.6
16	23 58 44.49	4 23.42	2 49 12.2	23 59.9	9.963 661	6 980	10 23.0
17	0 3 7.91	4 30.96	2 25 12.3	25 27.5	9.970 641	6 877	10 23.5
18	0 7 38.87	4 38.26	1 59 44.8	26 52.1	9.977 518	6 772	10 24.1
19	0 12 17.13	4 45.35	1 32 52.7	28 14.2	9.984 290	6 668	10 24.9
20	0 17 2.48	4 52.26	1 4 38.5	29 33.4	9.990 958	6 562	10 25.7
21	0 21 54.74	4 59.02	−0 35 5.1	30 49.9	9.997 520	6 456	10 26.7
22	0 26 53.76	5 5.69	−0 4 15.2	32 4.1	0.003 976	6 349	10 27.8
23	0 31 59.45	5 12.29	+0 27 48.9	33 15.5	0.010 325	6 241	10 29.0
24	0 37 11.74	5 18.85	1 1 4.4	34 24.7	0.016 566	6 131	10 30.3
25	0 42 30.59	5 25.40	1 35 29.1	35 31.3	0.022 697	6 021	10 31.7
26	0 47 55.99	5 31.99	2 11 0.4	36 35.2	0.028 718	5 907	10 33.2
27	0 53 27.98	5 38.63	+2 47 35.6	37 36.9	0.034 625	5 791	10 34.9
28	0 59 6.61	5 45.34	3 25 12.5	38 35.9	0.040 416	5 671	10 36.6
29	1 4 51.95	5 52.18	4 3 48.4	39 32.2	0.046 087	5 549	10 38.5
30	1 10 44.13	5 59.14	4 43 20.6	40 26.0	0.051 636	5 420	10 40.5
Mai 1	1 16 43.27	6 6.27	5 23 46.6	41 16.7	0.057 056	5 286	10 42.6
2	1 22 49.54		+6 5 3.3		0.062 342		10 44.8

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Mai 2	1 22 49.54	6 13.58	+ 6 5 3.3	42 4.5	0.062 342	5 147	10 44.8
3	1 29 3.12	6 21.10	6 47 7.8	42 49.0	0.067 489	4 998	10 47.1
4	1 35 24.22	6 28.84	7 29 56.8	43 30.2	0.072 487	4 843	10 49.6
5	1 41 53.06	6 36.83	8 13 27.0	44 7.4	0.077 330	4 676	10 52.2
6	1 48 29.89	6 45.05	8 57 34.4	44 40.6	0.082 006	4 498	10 55.0
7	1 55 14.94	6 53.54	9 42 15.0	45 9.3	0.086 504	4 309	10 57.8
8	2 2 8.48	7 2.27	+10 27 24.3	45 32.9	0.090 813	4 104	11 0.9
9	2 9 10.75	7 11.25	11 12 57.2	45 51.1	0.094 917	3 886	11 4.0
10	2 16 22.00	7 20.48	11 58 48.3	46 3.3	0.098 803	3 648	11 7.4
11	2 23 42.48	7 29.89	12 44 51.6	46 8.5	0.102 451	3 394	11 10.8
12	2 31 12.37	7 39.46	13 31 0.1	46 6.4	0.105 845	3 119	11 14.5
13	2 38 51.83	7 49.14	14 17 6.5	45 56.2	0.108 964	2 824	11 18.3
14	2 46 40.97	7 58.86	+15 3 2.7	45 36.9	0.111 788	2 506	11 22.3
15	2 54 39.83	8 8.51	15 48 39.6	45 7.8	0.114 294	2 167	11 26.4
16	3 2 48.34	8 18.02	16 33 47.4	44 28.3	0.116 461	1 803	11 30.7
17	3 11 6.36	8 27.25	17 18 15.7	43 37.5	0.118 264	1 418	11 35.1
18	3 19 33.61	8 36.05	18 1 53.2	42 34.9	0.119 682	1 010	11 39.7
19	3 28 9.66	8 44.30	18 44 28.1	41 20.2	0.120 692	584	11 44.4
20	3 36 53.96	8 51.85	+19 25 48.3	39 53.0	0.121 276	139	11 49.3
21	3 45 45.81	8 58.52	20 5 41.3	38 13.6	0.121 415	321	11 54.3
22	3 54 44.33	9 4.17	20 43 54.9	36 22.2	0.121 094	791	11 59.4
23	4 3 48.50	9 8.67	21 20 17.1	34 19.4	0.120 303	1 269	12 4.6
24	4 12 57.17	9 11.93	21 54 36.5	32 6.2	0.119 034	1 749	12 9.8
25	4 22 9.10	9 13.83	22 26 42.7	29 43.9	0.117 285	2 226	12 15.1
26	4 31 22.93	9 14.35	+22 56 26.6	27 13.9	0.115 059	2 697	12 20.5
27	4 40 37.28	9 13.44	23 23 40.5	24 37.8	0.112 362	3 155	12 25.8
28	4 49 50.72	9 11.12	23 48 18.3	21 57.4	0.109 207	3 600	12 31.1
29	4 59 1.84	9 7.47	24 10 15.7	19 14.4	0.105 607	4 026	12 36.3
30	5 8 9.31	9 2.50	24 29 30.1	16 30.4	0.101 581	4 430	12 41.4
31	5 17 11.81	8 56.34	24 46 0.5	13 47.0	0.097 151	4 813	12 46.5
Juni 1	5 26 8.15	8 49.08	+24 59 47.5	11 5.8	0.092 338	5 170	12 51.5
2	5 34 57.23	8 40.81	25 10 53.3	8 27.7	0.087 168	5 505	12 56.3
3	5 43 38.04	8 31.67	25 19 21.0	5 54.2	0.081 663	5 815	13 1.0
4	5 52 9.71	8 21.75	25 25 15.2	3 25.7	0.075 848	6 101	13 5.5
5	6 0 31.46	8 11.16	25 28 40.9	1 3.0	0.069 747	6 366	13 9.8
6	6 8 42.62	7 59.98	25 29 43.9	1 13.1	0.063 381	6 609	13 14.0
7	6 16 42.60	7 48.32	+25 28 30.8	3 22.5	0.056 772	6 831	13 17.9
8	6 24 30.92	7 36.22	25 25 8.3	5 25.0	0.049 941	7 036	13 21.7
9	6 32 7.14	7 23.77	25 19 43.3	7 20.2	0.042 905	7 222	13 25.2
10	6 39 30.91	7 11.02	25 12 23.1	9 8.3	0.035 683	7 394	13 28.6
11	6 46 41.93	6 58.01	25 3 14.8	10 49.1	0.028 289	7 550	13 31.7
12	6 53 39.94		+24 52 25.7		0.020 739		13 34.6

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
Juni	12	6 53 39.94	6 44.78	+24 52 25.7	12 22.8	0.020 739	7 692	13 34.6
	13	7 0 24.72	6 31.36	24 40 2.9	13 49.3	0.013 047	7 823	13 37.3
	14	7 6 56.08	6 17.75	24 26 13.6	15 8.9	0.005 224	7 941	13 39.7
	15	7 13 13.83	6 3.99	24 11 4.7	16 21.5	9.997 283	8 050	13 42.0
	16	7 19 17.82	5 50.09	23 54 43.2	17 27.5	9.989 233	8 148	13 44.0
	17	7 25 7.91	5 36.01	23 37 15.7	18 26.5	9.981 085	8 237	13 45.7
	18	7 30 43.92	5 21.80	+23 18 49.2	19 19.2	9.972 848	8 316	13 47.2
	19	7 36 5.72	5 7.42	22 59 30.0	20 5.5	9.964 532	8 386	13 48.5
	20	7 41 13.14	4 52.87	22 39 24.5	20 45.2	9.956 146	8 448	13 49.6
	21	7 46 6.01	4 38.14	22 18 39.3	21 18.7	9.947 698	8 499	13 50.4
	22	7 50 44.15	4 23.22	21 57 20.6	21 46.0	9.939 199	8 542	13 50.9
	23	7 55 7.37	4 8.07	21 35 34.6	22 7.0	9.930 657	8 576	13 51.2
	24	7 59 15.44	3 52.69	+21 13 27.6	22 21.8	9.922 081	8 597	13 51.3
	25	8 3 8.13	3 37.04	20 51 5.8	22 30.4	9.913 484	8 608	13 51.1
	26	8 6 45.17	3 21.13	20 28 35.4	22 32.8	9.904 876	8 606	13 50.6
	27	8 10 6.30	3 4.91	20 6 2.6	22 29.0	9.896 270	8 590	13 49.8
	28	8 13 11.21	2 48.39	19 43 33.6	22 18.8	9.887 680	8 558	13 48.8
	29	8 15 59.60	2 31.55	19 21 14.8	22 2.3	9.879 122	8 508	13 47.5
	30	8 18 31.15	2 14.36	+18 59 12.5	21 39.3	9.870 614	8 440	13 45.9
Juli	1	8 20 45.51	1 56.85	18 37 33.2	21 9.9	9.862 174	8 349	13 44.1
	2	8 22 42.36	1 39.00	18 16 23.3	20 34.1	9.853 825	8 233	13 41.9
	3	8 24 21.36	1 20.83	17 55 49.2	19 51.4	9.845 592	8 089	13 39.5
	4	8 25 42.19	1 2.39	17 35 57.8	19 2.3	9.837 503	7 914	13 36.7
	5	8 26 44.58	0 43.71	17 16 55.5	18 6.5	9.829 589	7 706	13 33.6
	6	8 27 28.29	0 24.82	+16 58 49.0	17 4.1	9.821 883	7 460	13 30.2
	7	8 27 53.11	0 5.85	16 41 44.9	15 55.2	9.814 423	7 171	13 26.5
	8	8 27 58.96	0 13.14	16 25 49.7	14 40.1	9.807 252	6 838	13 22.5
	9	8 27 45.82	0 31.99	16 11 9.6	13 18.9	9.800 414	6 455	13 18.2
	10	8 27 13.83	0 50.58	15 57 50.7	11 51.8	9.793 959	6 021	13 13.6
	11	8 26 23.25	1 8.69	15 45 58.9	10 19.7	9.787 938	5 531	13 8.6
	12	8 25 14.56	1 26.13	+15 35 39.2	8 42.9	9.782 407	4 984	13 3.4
	13	8 23 48.43	1 42.67	15 26 56.3	7 2.2	9.777 423	4 379	12 57.9
	14	8 22 5.76	1 58.04	15 19 54.1	5 18.4	9.773 044	3 714	12 52.1
	15	8 20 7.72	2 11.97	15 14 35.7	3 32.6	9.769 330	2 993	12 46.1
	16	8 17 55.75	2 24.21	15 11 3.1	1 45.7	9.766 337	2 215	12 39.9
	17	8 15 31.54	2 34.43	15 9 17.4	0 0.7	9.764 122	1 388	12 33.5
	18	8 12 57.11	2 42.43	+15 9 18.1	1 45.8	9.762 734	517	12 26.9
	19	8 10 14.68	2 47.93	15 11 3.9	3 28.0	9.762 217	392	12 20.2
	20	8 7 26.75	2 50.76	15 14 31.9	5 6.2	9.762 609	1 329	12 13.5
	21	8 4 35.99	2 50.73	15 19 38.1	6 38.9	9.763 938	2 283	12 6.7
	22	8 1 45.26	2 47.80	15 26 17.0	8 5.4	9.766 221	3 244	12 0.0
	23	7 58 57.46		+15 34 22.4		9.769 465		11 53.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Juli 23	7 58 57.46	2 41.90	+15 34 22.4	9 24.4	9.769 465	4 200	11 53.3
24	7 56 15.56	2 33.06	15 43 46.8	10 34.9	9.773 665	5 139	11 46.8
25	7 53 42.50	2 21.40	15 54 21.7	11 36.6	9.778 804	6 052	11 40.4
26	7 51 21.10	2 7.03	16 5 58.3	12 28.6	9.784 856	6 925	11 34.3
27	7 49 14.07	1 50.15	16 18 26.9	13 10.4	9.791 781	7 752	11 28.4
28	7 47 23.92	1 31.01	16 31 37.3	13 42.1	9.799 533	8 525	11 22.8
29	7 45 52.91	1 9.84	+16 45 19.4	14 3.2	9.808 058	9 236	11 17.5
30	7 44 43.07	0 46.94	16 59 22.6	14 13.5	9.817 294	9 882	11 12.6
31	7 43 56.13	0 22.54	17 13 36.1	14 13.3	9.827 176	10 461	11 8.0
Aug. 1	7 43 33.59	0 3.05	17 27 49.4	14 2.2	9.837 637	10 967	11 3.9
2	7 43 36.64	0 29.60	17 41 51.6	13 40.4	9.848 604	11 402	11 0.2
3	7 44 6.24	0 56.84	17 55 32.0	13 7.7	9.860 006	11 767	10 57.0
4	7 45 3.08	1 24.53	+18 8 39.7	12 24.2	9.871 773	12 062	10 54.2
5	7 46 27.61	1 52.50	18 21 3.9	11 29.7	9.883 835	12 285	10 51.9
6	7 48 20.11	2 20.52	18 32 33.6	10 24.2	9.896 120	12 444	10 50.1
7	7 50 40.63	2 48.40	18 42 57.8	9 7.7	9.908 564	12 536	10 48.7
8	7 53 29.03	3 15.98	18 52 5.5	7 40.3	9.921 100	12 565	10 47.7
9	7 56 45.01	3 43.06	18 59 45.8	6 1.8	9.933 665	12 532	10 47.3
10	8 0 28.07	4 9.48	+19 5 47.6	4 12.7	9.946 197	12 439	10 47.2
11	8 4 37.55	4 35.07	19 10 0.3	2 13.1	9.958 636	12 289	10 47.6
12	8 9 12.62	4 59.64	19 12 13.4	0 3.6	9.970 925	12 082	10 48.5
13	8 14 12.26	5 23.04	19 12 17.0	2 15.3	9.983 007	11 823	10 49.7
14	8 19 35.30	5 45.08	19 10 1.7	4 42.5	9.994 830	11 512	10 51.3
15	8 25 20.38	6 5.56	19 5 19.2	7 17.0	0.006 342	11 156	10 53.3
16	8 31 25.94	6 24.35	+18 58 2.2	9 57.2	0.017 498	10 755	10 55.6
17	8 37 50.29	6 41.30	18 48 5.0	12 41.7	0.028 253	10 315	10 58.2
18	8 44 31.59	6 56.30	18 35 23.3	15 28.5	0.038 568	9 842	11 1.1
19	8 51 27.89	7 9.26	18 19 54.8	18 15.7	0.048 410	9 340	11 4.2
20	8 58 37.15	7 20.15	18 1 39.1	21 1.5	0.057 750	8 816	11 7.5
21	9 5 57.30	7 28.94	17 40 37.6	23 43.7	0.066 566	8 277	11 10.9
22	9 13 26.24	7 35.71	+17 16 53.9	26 20.6	0.074 843	7 728	11 14.5
23	9 21 1.95	7 40.54	16 50 33.3	28 50.6	0.082 571	7 178	11 18.2
24	9 28 42.49	7 43.54	16 21 42.7	31 12.3	0.089 749	6 630	11 22.0
25	9 36 26.03	7 44.88	15 50 30.4	33 24.5	0.096 379	6 092	11 25.8
26	9 44 10.91	7 44.73	15 17 5.9	35 26.6	0.102 471	5 565	11 29.6
27	9 51 55.64	7 43.27	14 41 39.3	37 18.1	0.108 036	5 057	11 33.4
28	9 59 38.91	7 40.71	+14 4 21.2	38 58.7	0.113 093	4 568	11 37.2
29	10 7 19.62	7 37.23	13 25 22.5	40 28.5	0.117 661	4 101	11 40.9
30	10 14 56.85	7 32.97	12 44 54.0	41 47.8	0.121 762	3 656	11 44.6
31	10 22 29.82	7 28.15	12 3 6.2	42 57.2	0.125 418	3 236	11 48.2
Sept. 1	10 29 57.97	7 22.87	11 20 9.0	43 57.0	0.128 654	2 840	11 51.7
2	10 37 20.84		+10 36 12.0		0.131 494		11 55.1

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	m s	° ′ ″	′ ″			h m
Sept. 2	10 37 20.84	7 17.30	+10 36 12.0	44 47.7	0.131 494	2 465	11 55.1
3	10 44 38.14	7 11.50	9 51 24.3	45 30.0	0.133 959	2 115	11 58.4
4	10 51 49.64	7 5.61	9 5 54.3	46 4.7	0.136 074	1 785	12 1.6
5	10 58 55.25	6 59.69	8 19 49.6	46 32.4	0.137 859	1 475	12 4.7
6	11 5 54.94	6 53.78	7 33 17.2	46 53.6	0.139 334	1 185	12 7.7
7	11 12 48.72	6 47.97	6 46 23.6	47 9.0	0.140 519	912	12 10.6
8	11 19 36.69	6 42.30	+ 5 59 14.6	47 19.0	0.141 431	654	12 13.4
9	11 26 18.99	6 36.78	5 11 55.6	47 24.2	0.142 085	411	12 16.1
10	11 32 55.77	6 31.44	4 24 31.4	47 25.3	0.142 496	183	12 18.8
11	11 39 27.21	6 26.30	3 37 6.1	47 22.3	0.142 679	36	12 21.3
12	11 45 53.51	6 21.36	2 49 43.8	47 15.6	0.142 643	242	12 23.8
13	11 52 14.87	6 16.64	2 2 28.2	47 5.9	0.142 401	439	12 26.1
14	11 58 31.51	6 12.15	+ 1 15 22.3	46 53.3	0.141 962	629	12 28.4
15	12 4 43.66	6 7.86	+ 0 28 29.0	46 37.9	0.141 333	810	12 30.7
16	12 10 51.52	6 3.80	− 0 18 8.9	46 20.0	0.140 523	986	12 32.8
17	12 16 55.32	5 59.96	1 4 28.9	46 0.0	0.139 537	1 156	12 34.9
18	12 22 55.28	5 56.30	1 50 28.9	45 37.9	0.138 381	1 321	12 36.9
19	12 28 51.58	5 52.84	2 36 6.8	45 13.8	0.137 060	1 484	12 38.9
20	12 34 44.42	5 49.58	− 3 21 20.6	44 48.1	0.135 576	1 642	12 40.8
21	12 40 34.00	5 46.49	4 6 8.7	44 20.5	0.133 934	1 799	12 42.7
22	12 46 20.49	5 43.57	4 50 29.2	43 51.4	0.132 135	1 954	12 44.5
23	12 52 4.06	5 40.78	5 34 20.6	43 20.8	0.130 181	2 108	12 46.2
24	12 57 44.84	5 38.17	6 17 41.4	42 48.6	0.128 073	2 262	12 48.0
25	13 3 23.01	5 35.67	7 0 30.0	42 15.2	0.125 811	2 415	12 49.6
26	13 8 58.68	5 33.27	− 7 42 45.2	41 40.3	0.123 396	2 571	12 51.3
27	13 14 31.95	5 30.98	8 24 25.5	41 4.0	0.120 825	2 728	12 52.9
28	13 20 2.93	5 28.78	9 5 29.5	40 26.3	0.118 097	2 885	12 54.4
29	13 25 31.71	5 26.64	9 45 55.8	39 47.3	0.115 212	3 046	12 55.9
30	13 30 58.35	5 24.54	10 25 43.1	39 7.1	0.112 166	3 209	12 57.4
Okt. 1	13 36 22.89	5 22.47	11 4 50.2	38 25.3	0.108 957	3 376	12 58.9
2	13 41 45.36	5 20.39	−11 43 15.5	37 42.0	0.105 581	3 547	13 0.3
3	13 47 5.75	5 18.31	12 20 57.5	36 57.3	0.102 034	3 721	13 1.7
4	13 52 24.06	5 16.17	12 57 54.8	36 11.1	0.098 313	3 901	13 3.0
5	13 57 40.23	5 13.98	13 34 5.9	35 23.4	0.094 412	4 086	13 4.3
6	14 2 54.21	5 11.67	14 9 29.3	34 33.9	0.090 326	4 275	13 5.6
7	14 8 5.88	5 9.24	14 44 3.2	33 42.8	0.086 051	4 471	13 6.8
8	14 13 15.12	5 6.65	−15 17 46.0	32 49.8	0.081 580	4 674	13 8.0
9	14 18 21.77	5 3.84	15 50 35.8	31 54.9	0.076 906	4 882	13 9.1
10	14 23 25.61	5 0.81	16 22 30.7	30 58.0	0.072 024	5 099	13 10.2
11	14 28 26.42	4 57.47	16 53 28.7	29 58.9	0.066 925	5 323	13 11.3
12	14 33 23.89	4 53.77	17 23 27.6	28 57.5	0.061 602	5 554	13 12.3
13	14 38 17.66		−17 52 25.1		0.056 048		13 13.2

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	m s	° ′ ″	′ ″			h m
Okt. 13	14 38 17.66	4 49.69	−17 52 25.1	27 53.7	0.056 048	5 794	13 13.2
14	14 43 7.35	4 45.13	18 20 18.8	26 47.1	0.050 254	6 043	13 14.0
15	14 47 52.48	4 40.01	18 47 5.9	25 37.7	0.044 211	6 299	13 14.8
16	14 52 32.49	4 34.27	19 12 43.6	24 25.2	0.037 912	6 565	13 15.5
17	14 57 6.76	4 27.82	19 37 8.8	23 9.3	0.031 347	6 838	13 16.0
18	15 1 34.58	4 20.54	20 0 18.1	21 49.7	0.024 509	7 119	13 16.5
19	15 5 55.12	4 12.32	−20 22 7.8	20 26.1	0.017 390	7 409	13 16.8
20	15 10 7.44	4 3.04	20 42 33.9	18 58.0	0.009 981	7 703	13 17.0
21	15 14 10.48	3 52.58	21 1 31.9	17 24.9	0.002 278	8 003	13 17.0
22	15 18 3.06	3 40.75	21 18 56.8	15 46.6	9.994 275	8 305	13 16.8
23	15 21 43.81	3 27.42	21 34 43.4	14 2.2	9.985 970	8 608	13 16.5
24	15 25 11.23	3 12.40	21 48 45.6	12 11.0	9.977 362	8 905	13 15.9
25	15 28 23.63	2 55.52	−22 0 56.6	10 12.4	9.968 457	9 195	13 15.0
26	15 31 19.15	2 36.59	22 11 9.0	8 5.5	9.959 262	9 468	13 13.8
27	15 33 55.74	2 15.44	22 19 14.5	5 49.2	9.949 794	9 719	13 12.3
28	15 36 11.18	1 51.89	22 25 3.7	3 22.7	9.940 075	9 937	13 10.4
29	15 38 3.07	1 25.82	22 28 26.4	0 44.7	9.930 138	10 107	13 8.1
30	15 39 28.89	0 57.15	22 29 11.1	2 5.5	9.920 031	10 215	13 5.3
31	15 40 26.04	0 25.87	−22 27 5.6	5 9.1	9.909 816	10 245	13 2.0
Nov. 1	15 40 51.91	0 7.87	22 21 56.5	8 26.6	9.899 571	10 173	12 58.2
2	15 40 44.04	0 43.80	22 13 29.9	11 57.6	9.889 398	9 974	12 53.8
3	15 40 0.24	1 21.41	22 1 32.3	15 41.6	9.879 424	9 624	12 48.8
4	15 38 38.83	1 59.95	21 45 50.7	19 36.1	9.869 800	9 094	12 43.2
5	15 36 38.88	2 38.39	21 26 14.6	23 37.0	9.860 706	8 359	12 37.0
6	15 34 0.49	3 15.42	−21 2 37.6	27 37.9	9.852 347	7 401	12 30.1
7	15 30 45.07	3 49.42	20 34 59.7	31 30.0	9.844 946	6 206	12 22.7
8	15 26 55.65	4 18.65	20 3 29.7	35 2.1	9.838 740	4 776	12 14.7
9	15 22 37.00	4 41.37	19 28 27.6	38 0.9	9.833 964	3 133	12 6.2
10	15 17 55.63	4 55.97	18 50 26.7	40 12.6	9.830 831	1 313	11 57.5
11	15 12 59.66	5 1.29	18 10 14.1	41 24.9	9.829 518	623	11 48.7
12	15 7 58.37	4 56.74	−17 28 49.2	41 28.5	9.830 141	2 607	11 39.8
13	15 3 1.63	4 42.39	16 47 20.7	40 18.9	9.832 748	4 554	11 31.0
14	14 58 19.24	4 19.02	16 7 1.8	37 57.6	9.837 302	6 389	11 22.6
15	14 54 0.22	3 47.99	15 29 4.2	34 31.9	9.843 691	8 043	11 14.6
16	14 50 12.23	3 11.05	14 54 32.3	30 13.9	9.851 734	9 467	11 7.2
17	14 47 1.18	2 30.08	14 24 18.4	25 17.9	9.861 201	10 628	11 0.4
18	14 44 31.10	1 46.93	−13 59 0.5	19 59.3	9.871 829	11 521	10 54.3
19	14 42 44.17	1 3.25	13 39 1.2	14 32.9	9.883 350	12 153	10 48.9
20	14 41 40.92	0 20.39	13 24 28.3	9 11.0	9.895 503	12 542	10 44.3
21	14 41 20.53	0 20.64	13 15 17.3	4 3.2	9.908 045	12 723	10 40.3
22	14 41 41.17	0 59.15	13 11 14.1	0 43.2	9.920 768	12 724	10 37.0
23	14 42 40.32		−13 11 57.3		9.933 492		10 34.3

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Nov. 23	14 42 40.32	1 34.73	−13 11 57.3	5 4.4	9.933 492	12 582	10 34.3
24	14 44 15.05	2 7.19	13 17 1.7	8 57.5	9.946 074	12 325	10 32.2
25	14 46 22.24	2 36.52	13 25 59.2	12 22.3	9.958 399	11 984	10 30.6
26	14 48 58.76	3 2.80	13 38 21.5	15 19.2	9.970 383	11 580	10 29.5
27	14 52 1.56	3 26.23	13 53 40.7	17 49.6	9.981 963	11 137	10 28.8
28	14 55 27.79	3 47.05	14 11 30.3	19 55.4	9.993 100	10 666	10 28.4
29	14 59 14.84	4 5.49	−14 31 25.7	21 38.7	0.003 766	10 184	10 28.4
30	15 3 20.33	4 21.81	14 53 4.4	23 1.5	0.013 950	9 698	10 28.6
Dez. 1	15 7 42.14	4 36.26	15 16 5.9	24 6.0	0.023 648	9 217	10 29.2
2	15 12 18.40	4 49.05	15 40 11.9	24 54.5	0.032 865	8 744	10 30.0
3	15 17 7.45	5 0.42	16 5 6.4	25 28.5	0.041 609	8 286	10 30.9
4	15 22 7.87	5 10.51	16 30 34.9	25 49.8	0.049 895	7 842	10 32.0
5	15 27 18.38	5 19.54	−16 56 24.7	25 59.9	0.057 737	7 416	10 33.3
6	15 32 37.92	5 27.63	17 22 24.6	26 0.3	0.065 153	7 008	10 34.8
7	15 38 5.55	5 34.92	17 48 24.9	25 51.9	0.072 161	6 617	10 36.3
8	15 43 40.47	5 41.50	18 14 16.8	25 36.1	0.078 778	6 244	10 38.0
9	15 49 21.97	5 47.50	18 39 52.9	25 13.5	0.085 022	5 890	10 39.8
10	15 55 9.47	5 52.97	19 5 6.4	24 44.9	0.090 912	5 551	10 41.7
11	16 1 2.44	5 58.00	−19 29 51.3	24 11.1	0.096 463	5 229	10 43.7
12	16 7 0.44	6 2.65	19 54 2.4	23 32.6	0.101 692	4 921	10 45.8
13	16 13 3.09	6 6.96	20 17 35.0	22 49.9	0.106 613	4 629	10 47.9
14	16 19 10.05	6 10.98	20 40 24.9	22 3.4	0.111 242	4 350	10 50.1
15	16 25 21.03	6 14.77	21 2 28.3	21 13.6	0.115 592	4 082	10 52.4
16	16 31 35.80	6 18.32	21 23 41.9	20 20.7	0.119 674	3 827	10 54.7
17	16 37 54.12	6 21.68	−21 44 2.6	19 25.0	0.123 501	3 583	10 57.1
18	16 44 15.80	6 24.87	22 3 27.6	18 26.8	0.127 084	3 348	10 59.6
19	16 50 40.67	6 27.90	22 21 54.4	17 26.1	0.130 432	3 122	11 2.1
20	16 57 8.57	6 30.79	22 39 20.5	16 23.3	0.133 554	2 904	11 4.6
21	17 3 39.36	6 33.56	22 55 43.8	15 18.5	0.136 458	2 695	11 7.2
22	17 10 12.92	6 36.19	23 11 2.3	14 11.7	0.139 153	2 491	11 9.9
23	17 16 49.11	6 38.72	−23 25 14.0	13 3.2	0.141 644	2 294	11 12.6
24	17 23 27.83	6 41.14	23 38 17.2	11 52.9	0.143 938	2 103	11 15.3
25	17 30 8.97	6 43.45	23 50 10.1	10 41.1	0.146 041	1 916	11 18.0
26	17 36 52.42	6 45.66	24 0 51.2	9 27.7	0.147 957	1 734	11 20.8
27	17 43 38.08	6 47.77	24 10 18.9	8 12.9	0.149 691	1 556	11 23.7
28	17 50 25.85	6 49.77	24 18 31.8	6 56.5	0.151 247	1 380	11 26.6
29	17 57 15.62	6 51.69	−24 25 28.3	5 39.1	0.152 627	1 207	11 29.5
30	18 4 7.31	6 53.50	24 31 7.4	4 20.1	0.153 834	1 038	11 32.4
31	18 11 0.81	6 55.21	24 35 27.5	3 0.1	0.154 872	869	11 35.4
32	18 17 56.02		−24 38 27.6		0.155 741		11 38.4

Venus 1940

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	20 39 42.28	5 5.82	−20 11 51.9	19 0.7	0.150 8619	1 4654	14 6.3
	1	20 44 48.10	5 4.45	19 52 51.2	19 34.4	0.149 3965	1 4801	14 7.4
	2	20 49 52.55	5 3.07	19 33 16.8	20 7.5	0.147 9164	1 4949	14 8.6
	3	20 54 55.62	5 1.69	19 13 9.3	20 39.8	0.146 4215	1 5100	14 9.7
	4	20 59 57.31	5 0.30	18 52 29.5	21 11.2	0.144 9115	1 5254	14 10.7
	5	21 4 57.61	4 58.90	18 31 18.3	21 42.1	0.143 3861	1 5409	14 11.8
	6	21 9 56.51	4 57.51	−18 9 36.2	22 12.1	0.141 8452	1 5568	14 12.8
	7	21 14 54.02	4 56.11	17 47 24.1	22 41.3	0.140 2884	1 5728	14 13.8
	8	21 19 50.13	4 54.71	17 24 42.8	23 9.7	0.138 7156	1 5892	14 14.8
	9	21 24 44.84	4 53.32	17 1 33.1	23 37.4	0.137 1264	1 6056	14 15.7
	10	21 29 38.16	4 51.93	16 37 55.7	24 4.3	0.135 5208	1 6223	14 16.7
	11	21 34 30.09	4 50.55	16 13 51.4	24 30.4	0.133 8985	1 6393	14 17.6
	12	21 39 20.64	4 49.19	−15 49 21.0	24 55.6	0.132 2592	1 6563	14 18.5
	13	21 44 9.83	4 47.82	15 24 25.4	25 20.1	0.130 6029	1 6736	14 19.3
	14	21 48 57.65	4 46.48	14 59 5.3	25 43.8	0.128 9293	1 6911	14 20.2
	15	21 53 44.13	4 45.15	14 33 21.5	26 6.6	0.127 2382	1 7087	14 21.0
	16	21 58 29.28	4 43.83	14 7 14.9	26 28.6	0.125 5295	1 7264	14 21.8
	17	22 3 13.11	4 42.54	13 40 46.3	26 49.9	0.123 8031	1 7444	14 22.6
	18	22 7 55.65	4 41.26	−13 13 56.4	27 10.3	0.122 0587	1 7624	14 23.3
	19	22 12 36.91	4 40.01	12 46 46.1	27 30.0	0.120 2963	1 7807	14 24.1
	20	22 17 16.92	4 38.79	12 19 16.1	27 48.8	0.118 5156	1 7990	14 24.8
	21	22 21 55.71	4 37.58	11 51 27.3	28 6.9	0.116 7166	1 8175	14 25.5
	22	22 26 33.29	4 36.41	11 23 20.4	28 24.2	0.114 8991	1 8360	14 26.1
	23	22 31 9.70	4 35.26	10 54 56.2	28 40.6	0.113 0631	1 8547	14 26.8
	24	22 35 44.96	4 34.14	−10 26 15.6	28 56.4	0.111 2084	1 8734	14 27.4
	25	22 40 19.10	4 33.05	9 57 19.2	29 11.3	0.109 3350	1 8923	14 28.0
	26	22 44 52.15	4 32.01	9 28 7.9	29 25.5	0.107 4427	1 9115	14 28.6
	27	22 49 24.16	4 30.99	8 58 42.4	29 39.0	0.105 5312	1 9308	14 29.2
	28	22 53 55.15	4 30.02	8 29 3.4	29 51.7	0.103 6004	1 9503	14 29.8
	29	22 58 25.17	4 29.07	7 59 11.7	30 3.5	0.101 6501	1 9702	14 30.3
	30	23 2 54.24	4 28.17	− 7 29 8.2	30 14.8	0.099 6799	1 9903	14 30.9
	31	23 7 22.41	4 27.31	6 58 53.4	30 25.1	0.097 6896	2 0107	14 31.4
Febr.	1	23 11 49.72	4 26.47	6 28 28.3	30 34.9	0.095 6789	2 0315	14 31.9
	2	23 16 16.19	4 25.68	5 57 53.4	30 43.8	0.093 6474	2 0526	14 32.4
	3	23 20 41.87	4 24.92	5 27 9.6	30 51.9	0.091 5948	2 0741	14 32.9
	4	23 25 6.79	4 24.19	4 56 17.7	30 59.4	0.089 5207	2 0959	14 33.3
	5	23 29 30.98	4 23.51	− 4 25 18.3	31 6.0	0.087 4248	2 1181	14 33.8
	6	23 33 54.49	4 22.86	3 54 12.3	31 11.9	0.085 3067	2 1407	14 34.2
	7	23 38 17.35	4 22.24	3 23 0.4	31 17.1	0.083 1660	2 1635	14 34.6
	8	23 42 39.59	4 21.66	2 51 43.3	31 21.6	0.081 0025	2 1869	14 35.1
	9	23 47 1.25	4 21.11	2 20 21.7	31 25.2	0.078 8156	2 2105	14 35.5
	10	23 51 22.36		− 1 48 56.5		0.076 6051		14 35.9

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	23 51 22.36	4 20.59	− 1 48 56.5	31 28.1	0.076 6051	2 2344	14 35.9
	11	23 55 42.95	4 20.11	1 17 28.4	31 30.3	0.074 3707	2 2587	14 36.3
	12	0 0 3.06	4 19.67	0 45 58.1	31 31.8	0.072 1120	2 2834	14 36.7
	13	0 4 22.73	4 19.26	− 0 14 26.3	31 32.5	0.069 8286	2 3082	14 37.1
	14	0 8 41.99	4 18.87	+ 0 17 6.2	31 32.5	0.067 5204	2 3334	14 37.4
	15	0 13 0.86	4 18.53	0 48 38.7	31 31.8	0.065 1870	2 3590	14 37.8
	16	0 17 19.39	4 18.21	+ 1 20 10.5	31 30.3	0.062 8280	2 3848	14 38.2
	17	0 21 37.60	4 17.92	1 51 40.8	31 28.2	0.060 4432	2 4109	14 38.5
	18	0 25 55.52	4 17.67	2 23 9.0	31 25.2	0.058 0323	2 4372	14 38.9
	19	0 30 13.19	4 17.46	2 54 34.2	31 21.7	0.055 5951	2 4638	14 39.2
	20	0 34 30.65	4 17.26	3 25 55.9	31 17.3	0.053 1313	2 4906	14 39.6
	21	0 38 47.91	4 17.11	3 57 13.2	31 12.3	0.050 6407	2 5177	14 39.9
	22	0 43 5.02	4 16.99	+ 4 28 25.5	31 6.6	0.048 1230	2 5449	14 40.2
	23	0 47 22.01	4 16.90	4 59 32.1	31 0.2	0.045 5781	2 5724	14 40.6
	24	0 51 38.91	4 16.85	5 30 32.3	30 53.1	0.043 0057	2 6001	14 40.9
	25	0 55 55.76	4 16.82	6 1 25.4	30 45.4	0.040 4056	2 6282	14 41.3
	26	1 0 12.58	4 16.84	6 32 10.8	30 37.0	0.037 7774	2 6566	14 41.6
	27	1 4 29.42	4 16.88	7 2 47.8	30 27.9	0.035 1208	2 6855	14 41.9
	28	1 8 46.30	4 16.95	+ 7 33 15.7	30 18.1	0.032 4353	2 7148	14 42.3
	29	1 13 3.25	4 17.06	8 3 33.8	30 7.6	0.029 7205	2 7444	14 42.6
März	1	1 17 20.31	4 17.19	8 33 41.4	29 56.6	0.026 9761	2 7747	14 43.0
	2	1 21 37.50	4 17.35	9 3 38.0	29 44.7	0.024 2014	2 8055	14 43.3
	3	1 25 54.85	4 17.53	9 33 22.7	29 32.2	0.021 3959	2 8367	14 43.7
	4	1 30 12.38	4 17.74	10 2 54.9	29 19.1	0.018 5592	2 8685	14 44.0
	5	1 34 30.12	4 17.96	+10 32 14.0	29 5.2	0.015 6907	2 9008	14 44.4
	6	1 38 48.08	4 18.20	11 1 19.2	28 50.8	0.012 7899	2 9337	14 44.7
	7	1 43 6.28	4 18.47	11 30 10.0	28 35.6	0.009 8562	2 9671	14 45.1
	8	1 47 24.75	4 18.74	11 58 45.6	28 19.7	0.006 8891	3 0011	14 45.5
	9	1 51 43.49	4 19.03	12 27 5.3	28 3.2	0.003 8880	3 0356	14 45.8
	10	1 56 2.52	4 19.32	12 55 8.5	27 46.0	0.000 8524	3 0706	14 46.2
	11	2 0 21.84	4 19.64	+13 22 54.5	27 28.2	9.997 7818	3 1062	14 46.6
	12	2 4 41.48	4 19.94	13 50 22.7	27 9.7	9.994 6756	3 1422	14 47.0
	13	2 9 1.42	4 20.25	14 17 32.4	26 50.5	9.991 5334	3 1788	14 47.4
	14	2 13 21.67	4 20.57	14 44 22.9	26 30.6	9.988 3546	3 2160	14 47.8
	15	2 17 42.24	4 20.89	15 10 53.5	26 10.2	9.985 1386	3 2537	14 48.2
	16	2 22 3.13	4 21.21	15 37 3.7	25 49.1	9.981 8849	3 2919	14 48.6
	17	2 26 24.34	4 21.51	+16 2 52.8	25 27.4	9.978 5930	3 3304	14 49.0
	18	2 30 45.85	4 21.81	16 28 20.2	25 5.0	9.975 2626	3 3695	14 49.4
	19	2 35 7.66	4 22.11	16 53 25.2	24 42.0	9.971 8931	3 4089	14 49.8
	20	2 39 29.77	4 22.39	17 18 7.2	24 18.5	9.968 4842	3 4488	14 50.3
	21	2 43 52.16	4 22.65	17 42 25.7	23 54.3	9.965 0354	3 4889	14 50.7
	22	2 48 14.81		+18 6 20.0		9.961 5465		14 51.1

Venus 1940

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
März	22	2 48 14.81	4 22.92	+18 6 20.0	23 29.5	9.961 5465	3 5296	14 51.1
	23	2 52 37.73	4 23.16	18 29 49.5	23 4.2	9.958 0169	3 5707	14 51.6
	24	2 57 0.89	4 23.38	18 52 53.7	22 38.3	9.954 4462	3 6121	14 52.0
	25	3 1 24.27	4 23.59	19 15 32.0	22 12.0	9.950 8341	3 6541	14 52.5
	26	3 5 47.86	4 23.78	19 37 44.0	21 45.0	9.947 1800	3 6966	14 52.9
	27	3 10 11.64	4 23.96	19 59 29.0	21 17.5	9.943 4834	3 7396	14 53.4
	28	3 14 35.60	4 24.10	+20 20 46.5	20 49.6	9.939 7438	3 7832	14 53.9
	29	3 18 59.70	4 24.22	20 41 36.1	20 21.2	9.935 9606	3 8275	14 54.3
	30	3 23 23.92	4 24.30	21 1 57.3	19 52.3	9.932 1331	3 8725	14 54.8
	31	3 27 48.22	4 24.35	21 21 49.6	19 23.0	9.928 2606	3 9182	14 55.2
April	1	3 32 12.57	4 24.35	21 41 12.6	18 53.1	9.924 3424	3 9647	14 55.7
	2	3 36 36.92	4 24.31	22 0 5.7	18 23.0	9.920 3777	4 0119	14 56.2
	3	3 41 1.23	4 24.22	+22 18 28.7	17 52.3	9.916 3658	4 0600	14 56.6
	4	3 45 25.45	4 24.09	22 36 21.0	17 21.4	9.912 3058	4 1089	14 57.1
	5	3 49 49.54	4 23.89	22 53 42.4	16 50.0	9.908 1969	4 1585	14 57.5
	6	3 54 13.43	4 23.63	23 10 32.4	16 18.3	9.904 0384	4 2090	14 58.0
	7	3 58 37.06	4 23.31	23 26 50.7	15 46.3	9.899 8294	4 2601	14 58.4
	8	4 3 0.37	4 22.91	23 42 37.0	15 13.9	9.895 5693	4 3121	14 58.9
	9	4 7 23.28	4 22.45	+23 57 50.9	14 41.4	9.891 2572	4 3647	14 59.3
	10	4 11 45.73	4 21.89	24 12 32.3	14 8.5	9.886 8925	4 4183	14 59.7
	11	4 16 7.62	4 21.26	24 26 40.8	13 35.4	9.882 4742	4 4726	15 0.2
	12	4 20 28.88	4 20.55	24 40 16.2	13 2.1	9.878 0016	4 5277	15 0.6
	13	4 24 49.43	4 19.74	24 53 18.3	12 28.6	9.873 4739	4 5835	15 1.0
	14	4 29 9.17	4 18.84	25 5 46.9	11 55.1	9.868 8904	4 6399	15 1.3
	15	4 33 28.01	4 17.83	+25 17 42.0	11 21.3	9.864 2505	4 6971	15 1.7
	16	4 37 45.84	4 16.73	25 29 3.3	10 47.5	9.859 5534	4 7549	15 2.0
	17	4 42 2.57	4 15.52	25 39 50.8	10 13.7	9.854 7985	4 8132	15 2.4
	18	4 46 18.09	4 14.20	25 50 4.5	9 39.7	9.849 9853	4 8720	15 2.7
	19	4 50 32.29	4 12.77	25 59 44.2	9 5.8	9.845 1133	4 9311	15 2.9
	20	4 54 45.06	4 11.22	26 8 50.0	8 31.9	9.840 1822	4 9909	15 3.2
	21	4 58 56.28	4 9.57	+26 17 21.9	7 58.2	9.835 1913	5 0510	15 3.4
	22	5 3 5.85	4 7.79	26 25 20.1	7 24.4	9.830 1403	5 1115	15 3.6
	23	5 7 13.64	4 5.91	26 32 44.5	6 50.8	9.825 0288	5 1725	15 3.8
	24	5 11 19.55	4 3.90	26 39 35.3	6 17.4	9.819 8563	5 2339	15 3.9
	25	5 15 23.45	4 1.78	26 45 52.7	5 44.2	9.814 6224	5 2959	15 4.0
	26	5 19 25.23	3 59.52	26 51 36.9	5 11.2	9.809 3265	5 3584	15 4.1
	27	5 23 24.75	3 57.14	+26 56 48.1	4 38.5	9.803 9681	5 4215	15 4.1
	28	5 27 21.89	3 54.62	27 1 26.6	4 6.0	9.798 5466	5 4852	15 4.1
	29	5 31 16.51	3 51.97	27 5 32.6	3 33.9	9.793 0614	5 5495	15 4.0
	30	5 35 8.48	3 49.16	27 9 6.5	3 2.2	9.787 5119	5 6142	15 3.9
Mai	1	5 38 57.64	3 46.21	27 12 8.7	2 30.9	9.781 8977	5 6793	15 3.8
	2	5 42 43.85		+27 14 39.6		9.776 2184		15 3.6

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	m s	° ′ ″	′ ″			h m
Mai 2	5 42 43.85	3 43.12	+27 14 39.6	1 59.9	9.776 2184	5 7450	15 3.6
3	5 46 26.97	3 39.85	27 16 39.5	1 29.4	9.770 4734	5 8110	15 3.3
4	5 50 6.82	3 36.42	27 18 8.9	0 59.5	9.764 6624	5 8774	15 3.0
5	5 53 43.24	3 32.84	27 19 8.4	0 30.0	9.758 7850	5 9440	15 2.6
6	5 57 16.08	3 29.08	27 19 38.4	0 1.0	9.752 8410	6 0107	15 2.2
7	6 0 45.16	3 25.13	27 19 39.4	0 27.3	9.746 8303	6 0774	15 1.7
8	6 4 10.29	3 20.99	+27 19 12.1	0 55.0	9.740 7529	6 1441	15 1.1
9	6 7 31.28	3 16.68	27 18 17.1	1 22.2	9.734 6088	6 2107	15 0.5
10	6 10 47.96	3 12.17	27 16 54.9	1 48.7	9.728 3981	6 2769	14 59.8
11	6 14 0.13	3 7.43	27 15 6.2	2 14.6	9.722 1212	6 3423	14 59.0
12	6 17 7.56	3 2.50	27 12 51.6	2 39.7	9.715 7789	6 4069	14 58.1
13	6 20 10.06	2 57.35	27 10 11.9	3 4.3	9.709 3720	6 4705	14 57.2
14	6 23 7.41	2 51.99	+27 7 7.6	3 28.1	9.702 9015	6 5328	14 56.1
15	6 25 59.40	2 46.40	27 3 39.5	3 51.2	9.696 3687	6 5933	14 55.0
16	6 28 45.80	2 40.58	26 59 48.3	4 13.5	9.689 7754	6 6516	14 53.8
17	6 31 26.38	2 34.53	26 55 34.8	4 35.2	9.683 1238	6 7073	14 52.5
18	6 34 0.91	2 28.24	26 50 59.6	4 56.2	9.676 4165	6 7604	14 51.0
19	6 36 29.15	2 21.72	26 46 3.4	5 16.4	9.669 6561	6 8103	14 49.5
20	6 38 50.87	2 14.96	+26 40 47.0	5 36.0	9.662 8458	6 8566	14 47.8
21	6 41 5.83	2 7.97	26 35 11.0	5 54.8	9.655 9892	6 8988	14 46.1
22	6 43 13.80	2 0.74	26 29 16.2	6 13.0	9.649 0904	6 9364	14 44.2
23	6 45 14.54	1 53.26	26 23 3.2	6 30.6	9.642 1540	6 9693	14 42.2
24	6 47 7.80	1 45.56	26 16 32.6	6 47.5	9.635 1847	6 9967	14 40.1
25	6 48 53.36	1 37.61	26 9 45.1	7 3.8	9.628 1880	7 0181	14 37.8
26	6 50 30.97	1 29.40	+26 2 41.3	7 19.3	9.621 1699	7 0330	14 35.4
27	6 52 0.37	1 20.97	25 55 22.0	7 34.3	9.614 1369	7 0409	14 32.9
28	6 53 21.34	1 12.29	25 47 47.7	7 48.8	9.607 0960	7 0411	14 30.2
29	6 54 33.63	1 3.37	25 39 58.9	8 2.8	9.600 0549	7 0326	14 27.4
30	6 55 37.00	0 54.21	25 31 56.1	8 16.3	9.593 0223	7 0145	14 24.4
31	6 56 31.21	0 44.82	25 23 39.8	8 29.3	9.586 0078	6 9861	14 21.3
Juni 1	6 57 16.03	0 35.22	+25 15 10.5	8 41.9	9.579 0217	6 9466	14 18.0
2	6 57 51.25	0 25.42	25 6 28.6	8 54.1	9.572 0751	6 8949	14 14.5
3	6 58 16.67	0 15.44	24 57 34.5	9 6.2	9.565 1802	6 8303	14 10.9
4	6 58 32.11	0 5.27	24 48 28.3	9 17.8	9.558 3499	6 7514	14 7.1
5	6 58 37.38	0 5.05	24 39 10.5	9 29.2	9.551 5985	6 6570	14 3.2
6	6 58 32.33	0 15.48	24 29 41.3	9 40.5	9.544 9415	6 5465	13 59.1
7	6 58 16.85	0 26.01	+24 20 0.8	9 51.6	9.538 3950	6 4185	13 54.8
8	6 57 50.84	0 36.59	24 10 9.2	10 2.7	9.531 9765	6 2719	13 50.3
9	6 57 14.25	0 47.18	24 0 6.5	10 13.6	9.525 7046	6 1057	13 45.7
10	6 56 27.07	0 57.73	23 49 52.9	10 24.5	9.519 5989	5 9187	13 40.9
11	6 55 29.34	1 8.17	23 39 28.4	10 35.3	9.513 6802	5 7106	13 35.9
12	6 54 21.17		+23 28 53.1		9.507 9696		13 30.7

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Juni 12	6 54 21.17	1 18.44	+23 28 53.1	10 46.0	9.507 9696	5 4799	13 30.7
13	6 53 2.73	1 28.48	23 18 7.1	10 56.6	9.502 4897	5 2262	13 25.4
14	6 51 34.25	1 38.21	23 7 10.5	11 7.1	9.497 2635	4 9492	13 19.9
15	6 49 56.04	1 47.56	22 56 3.4	11 17.3	9.492 3143	4 6491	13 14.3
16	6 48 8.48	1 56.44	22 44 46.1	11 27.0	9.487 6652	4 3257	13 8.5
17	6 46 12.04	2 4.74	22 33 19.1	11 36.2	9.483 3395	3 9797	13 2.6
18	6 44 7.30	2 12.40	+22 21 42.9	11 44.8	9.479 3598	3 6120	12 56.5
19	6 41 54.90	2 19.36	22 9 58.1	11 52.4	9.475 7478	3 2245	12 50.3
20	6 39 35.54	2 25.50	21 58 5.7	11 58.9	9.472 5233	2 8183	12 44.0
21	6 37 10.04	2 30.78	21 46 6.8	12 3.9	9.469 7050	2 3955	12 37.6
22	6 34 39.26	2 35.14	21 34 2.9	12 7.3	9.467 3095	1 9582	12 31.2
23	6 32 4.12	2 38.54	21 21 55.6	12 9.0	9.465 3513	1 5095	12 24.6
24	6 29 25.58	2 40.94	+21 9 46.6	12 8.4	9.463 8418	1 0522	12 18.0
25	6 26 44.64	2 42.30	20 57 38.2	12 5.6	9.462 7896	5888	12 11.4
26	6 24 2.34	2 42.63	20 45 32.6	12 0.2	9.462 2008	1226	12 4.8
27	6 21 19.71	2 41.92	20 33 32.4	11 52.3	9.462 0782	3438	11 58.2
28	6 18 37.79	2 40.19	20 21 40.1	11 41.7	9.462 4220	8069	11 51.6
29	6 15 57.60	2 37.48	20 9 58.4	11 28.1	9.463 2289	1 2633	11 45.0
30	6 13 20.12	2 33.83	+19 58 30.3	11 11.6	9.464 4922	1 7106	11 38.5
Juli 1	6 10 46.29	2 29.25	19 47 18.7	10 52.5	9.466 2028	2 1466	11 32.1
2	6 8 17.04	2 23.85	19 36 26.2	10 30.8	9.468 3494	2 5682	11 25.7
3	6 5 53.19	2 17.69	19 25 55.4	10 6.5	9.470 9176	2 9733	11 19.5
4	6 3 35.50	2 10.83	19 15 48.9	9 39.9	9.473 8909	3 3602	11 13.3
5	6 1 24.67	2 3.34	19 6 9.0	9 11.3	9.477 2511	3 7280	11 7.3
6	5 59 21.33	1 55.30	+18 56 57.7	8 40.9	9.480 9791	4 0752	11 1.4
7	5 57 26.03	1 46.82	18 48 16.8	8 8.7	9.485 0543	4 4013	10 55.6
8	5 55 39.21	1 37.94	18 40 8.1	7 35.2	9.489 4556	4 7055	10 50.0
9	5 54 1.27	1 28.71	18 32 32.9	7 0.7	9.494 1611	4 9876	10 44.5
10	5 52 32.56	1 19.20	18 25 32.2	6 25.6	9.499 1487	5 2477	10 39.1
11	5 51 13.36	1 9.51	18 19 6.6	5 50.1	9.504 3964	5 4864	10 33.9
12	5 50 3.85	0 59.69	+18 13 16.5	5 14.5	9.509 8828	5 7037	10 28.9
13	5 49 4.16	0 49.77	18 8 2.0	4 38.9	9.515 5865	5 8996	10 24.1
14	5 48 14.39	0 39.79	18 3 23.1	4 3.7	9.521 4861	6 0753	10 19.4
15	5 47 34.60	0 29.83	17 59 19.4	3 29.2	9.527 5614	6 2316	10 14.9
16	5 47 4.77	0 19.91	17 55 50.2	2 55.4	9.533 7930	6 3689	10 10.5
17	5 46 44.86	0 10.06	17 52 54.8	2 22.5	9.540 1619	6 4882	10 6.3
18	5 46 34.80	0 0.32	+17 50 32.3	1 51.0	9.546 6501	6 5904	10 2.3
19	5 46 34.48	0 9.27	17 48 41.3	1 20.7	9.553 2405	6 6768	9 58.4
20	5 46 43.75	0 18.70	17 47 20.6	0 52.0	9.559 9173	6 7482	9 54.7
21	5 47 2.45	0 27.95	17 46 28.6	0 24.5	9.566 6655	6 8051	9 51.2
22	5 47 30.40	0 36.99	17 46 4.1	0 1.2	9.573 4706	6 8490	9 47.8
23	5 48 7.39		+17 46 5.3		9.580 3196		9 44.5

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
Juli	23	5 48 7.39	0 45.82	+17 46 5.3	0 25.2	9.580 3196	6 8813	9 44.5
	24	5 48 53.21	0 54.41	17 46 30.5	0 47.5	9.587 2009	6 9024	9 41.4
	25	5 49 47.62	1 2.78	17 47 18.0	1 8.2	9.594 1033	6 9133	9 38.4
	26	5 50 50.40	1 10.89	17 48 26.2	1 27.0	9.601 0166	6 9149	9 35.6
	27	5 52 1.29	1 18.77	17 49 53.2	1 44.0	9.607 9315	6 9085	9 32.9
	28	5 53 20.06	1 26.42	17 51 37.2	1 59.0	9.614 8400	6 8947	9 30.3
	29	5 54 46.48	1 33.83	+17 53 36.2	2 12.6	9.621 7347	6 8738	9 27.9
	30	5 56 20.31	1 40.98	17 55 48.8	2 24.2	9.628 6085	6 8469	9 25.5
	31	5 58 1.29	1 47.88	17 58 13.0	2 34.2	9.635 4554	6 8146	9 23.3
Aug.	1	5 59 49.17	1 54.55	18 0 47.2	2 42.3	9.642 2700	6 7774	9 21.2
	2	6 1 43.72	2 1.00	18 3 29.5	2 48.7	9.649 0474	6 7365	9 19.2
	3	6 3 44.72	2 7.23	18 6 18.2	2 53.6	9.655 7839	6 6918	9 17.3
	4	6 5 51.95	2 13.22	+18 9 11.8	2 56.9	9.662 4757	6 6439	9 15.6
	5	6 8 5.17	2 19.00	18 12 8.7	2 58.6	9.669 1196	6 5937	9 13.9
	6	6 10 24.17	2 24.59	18 15 7.3	2 58.6	9.675 7133	6 5412	9 12.3
	7	6 12 48.76	2 29.97	18 18 5.9	2 57.2	9.682 2545	6 4870	9 10.8
	8	6 15 18.73	2 35.17	18 21 3.1	2 54.3	9.688 7415	6 4311	9 9.4
	9	6 17 53.90	2 40.19	18 23 57.4	2 50.2	9.695 1726	6 3740	9 8.1
	10	6 20 34.09	2 45.04	+18 26 47.6	2 44.6	9.701 5466	6 3157	9 6.8
	11	6 23 19.13	2 49.74	18 29 32.2	2 37.5	9.707 8623	6 2567	9 5.7
	12	6 26 8.87	2 54.26	18 32 9.7	2 29.3	9.714 1190	6 1967	9 4.6
	13	6 29 3.13	2 58.63	18 34 39.0	2 19.8	9.720 3157	6 1359	9 3.6
	14	6 32 1.76	3 2.86	18 36 58.8	2 9.0	9.726 4516	6 0745	9 2.6
	15	6 35 4.62	3 6.94	18 39 7.8	1 57.1	9.732 5261	6 0129	9 1.8
	16	6 38 11.56	3 10.88	+18 41 4.9	1 44.1	9.738 5390	5 9507	9 1.0
	17	6 41 22.44	3 14.68	18 42 49.0	1 29.9	9.744 4897	5 8882	9 0.2
	18	6 44 37.12	3 18.34	18 44 18.9	1 14.8	9.750 3779	5 8255	8 59.5
	19	6 47 55.46	3 21.88	18 45 33.7	0 58.7	9.756 2034	5 7626	8 58.9
	20	6 51 17.34	3 25.28	18 46 32.4	0 41.6	9.761 9660	5 6999	8 58.4
	21	6 54 42.62	3 28.54	18 47 14.0	0 23.5	9.767 6659	5 6369	8 57.9
	22	6 58 11.16	3 31.69	+18 47 37.5	0 4.6	9.773 3028	5 5741	8 57.4
	23	7 1 42.85	3 34.71	18 47 42.1	0 15.1	9.778 8769	5 5116	8 57.0
	24	7 5 17.56	3 37.60	18 47 27.0	0 35.6	9.784 3885	5 4494	8 56.7
	25	7 8 55.16	3 40.39	18 46 51.4	0 56.9	9.789 8379	5 3873	8 56.4
	26	7 12 35.55	3 43.04	18 45 54.5	1 19.0	9.795 2252	5 3257	8 56.1
	27	7 16 18.59	3 45.59	18 44 35.5	1 41.5	9.800 5509	5 2646	8 55.9
	28	7 20 4.18	3 48.03	+18 42 54.0	2 4.7	9.805 8155	5 2039	8 55.8
	29	7 23 52.21	3 50.35	18 40 49.3	2 28.6	9.811 0194	5 1434	8 55.6
	30	7 27 42.56	3 52.56	18 38 20.7	2 52.9	9.816 1628	5 0839	8 55.5
	31	7 31 35.12	3 54.68	18 35 27.8	3 17.7	9.821 2467	5 0251	8 55.5
Sept.	1	7 35 29.80	3 56.68	18 32 10.1	3 43.0	9.826 2718	4 9667	8 55.5
	2	7 39 26.48		+18 28 27.1		9.831 2385		8 55.5

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Sept. 2	7 39 26.48	3 58.58	+18 28 27.1	4 8.7	9.831 2385	4 9094	8 55.5
3	7 43 25.06	4 0.39	18 24 18.4	4 35.0	9.836 1479	4 8528	8 55.5
4	7 47 25.45	4 2.11	18 19 43.4	5 1.5	9.841 0007	4 7973	8 55.6
5	7 51 27.56	4 3.73	18 14 41.9	5 28.4	9.845 7980	4 7425	8 55.7
6	7 55 31.29	4 5.28	18 9 13.5	5 55.7	9.850 5405	4 6887	8 55.8
7	7 59 36.57	4 6.74	18 3 17.8	6 23.1	9.855 2292	4 6359	8 56.0
8	8 3 43.31	4 8.13	+17 56 54.7	6 50.8	9.859 8651	4 5837	8 56.2
9	8 7 51.44	4 9.44	17 50 3.9	7 18.8	9.864 4488	4 5324	8 56.4
10	8 12 0.88	4 10.68	17 42 45.1	7 46.9	9.868 9812	4 4818	8 56.6
11	8 16 11.56	4 11.86	17 34 58.2	8 15.2	9.873 4630	4 4320	8 56.8
12	8 20 23.42	4 12.98	17 26 43.0	8 43.6	9.877 8950	4 3827	8 57.1
13	8 24 36.40	4 14.02	17 17 59.4	9 12.1	9.882 2777	4 3341	8 57.4
14	8 28 50.42	4 15.01	+17 8 47.3	9 40.7	9.886 6118	4 2861	8 57.7
15	8 33 5.43	4 15.93	16 59 6.6	10 9.4	9.890 8979	4 2388	8 58.0
16	8 37 21.36	4 16.79	16 48 57.2	10 38.0	9.895 1367	4 1918	8 58.3
17	8 41 38.15	4 17.60	16 38 19.2	11 6.6	9.899 3285	4 1454	8 58.7
18	8 45 55.75	4 18.34	16 27 12.6	11 35.2	9.903 4739	4 0996	8 59.0
19	8 50 14.09	4 19.04	16 15 37.4	12 3.7	9.907 5735	4 0542	8 59.4
20	8 54 33.13	4 19.68	+16 3 33.7	12 32.0	9.911 6277	4 0093	8 59.8
21	8 58 52.81	4 20.27	15 51 1.7	13 0.2	9.915 6370	3 9650	9 0.2
22	9 3 13.08	4 20.80	15 38 1.5	13 28.2	9.919 6020	3 9210	9 0.6
23	9 7 33.88	4 21.30	15 24 33.3	13 56.2	9.923 5230	3 8776	9 1.0
24	9 11 55.18	4 21.74	15 10 37.1	14 23.7	9.927 4006	3 8347	9 1.4
25	9 16 16.92	4 22.15	14 56 13.4	14 51.1	9.931 2353	3 7921	9 1.8
26	9 20 39.07	4 22.49	+14 41 22.3	15 18.3	9.935 0274	3 7501	9 2.2
27	9 25 1.56	4 22.81	14 26 4.0	15 45.1	9.938 7775	3 7086	9 2.7
28	9 29 24.37	4 23.08	14 10 18.9	16 11.5	9.942 4861	3 6676	9 3.1
29	9 33 47.45	4 23.31	13 54 7.4	16 37.7	9.946 1537	3 6271	9 3.6
30	9 38 10.76	4 23.51	13 37 29.7	17 3.5	9.949 7808	3 5872	9 4.0
Okt. 1	9 42 34.27	4 23.68	13 20 26.2	17 28.9	9.953 3680	3 5479	9 4.5
2	9 46 57.95	4 23.81	+13 2 57.3	17 53.9	9.956 9159	3 5093	9 4.9
3	9 51 21.76	4 23.92	12 45 3.4	18 18.5	9.960 4252	3 4712	9 5.3
4	9 55 45.68	4 24.01	12 26 44.9	18 42.7	9.963 8964	3 4339	9 5.8
5	10 0 9.69	4 24.07	12 8 2.2	19 6.5	9.967 3303	3 3973	9 6.3
6	10 4 33.76	4 24.12	11 48 55.7	19 29.7	9.970 7276	3 3614	9 6.7
7	10 8 57.88	4 24.16	11 29 26.0	19 52.7	9.974 0890	3 3258	9 7.2
8	10 13 22.04	4 24.17	+11 9 33.3	20 15.1	9.977 4148	3 2910	9 7.7
9	10 17 46.21	4 24.20	10 49 18.2	20 37.1	9.980 7058	3 2565	9 8.1
10	10 22 10.41	4 24.21	10 28 41.1	20 58.5	9.983 9623	3 2226	9 8.6
11	10 26 34.62	4 24.21	10 7 42.6	21 19.5	9.987 1849	3 1891	9 9.0
12	10 30 58.83	4 24.21	9 46 23.1	21 40.0	9.990 3740	3 1560	9 9.5
13	10 35 23.04		+ 9 24 43.1		9.993 5300		9 10.0

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Okt. 13	10 35 23.04	4 24.22	+9 24 43.1	21 59.9	9.993 5300	3 1233	9 10.0
14	10 39 47.26	4 24.21	9 2 43.2	22 19.3	9.996 6533	3 0910	9 10.4
15	10 44 11.47	4 24.22	8 40 23.9	22 38.2	9.999 7443	3 0591	9 10.9
16	10 48 35.69	4 24.22	8 17 45.7	22 56.4	0.002 8034	3 0274	9 11.3
17	10 52 59.91	4 24.24	7 54 49.3	23 14.2	0.005 8308	2 9962	9 11.8
18	10 57 24.15	4 24.25	7 31 35.1	23 31.2	0.008 8270	2 9651	9 12.2
19	11 1 48.40	4 24.28	+7 8 3.9	23 47.9	0.011 7921	2 9344	9 12.7
20	11 6 12.68	4 24.31	6 44 16.0	24 3.7	0.014 7265	2 9039	9 13.2
21	11 10 36.99	4 24.35	6 20 12.3	24 19.1	0.017 6304	2 8736	9 13.7
22	11 15 1.34	4 24.40	5 55 53.2	24 33.8	0.020 5040	2 8437	9 14.1
23	11 19 25.74	4 24.47	5 31 19.4	24 47.9	0.023 3477	2 8138	9 14.6
24	11 23 50.21	4 24.53	5 6 31.5	25 1.2	0.026 1615	2 7844	9 15.0
25	11 28 14.74	4 24.62	+4 41 30.3	25 14.1	0.028 9459	2 7551	9 15.5
26	11 32 39.36	4 24.71	4 16 16.2	25 26.1	0.031 7010	2 7261	9 16.0
27	11 37 4.07	4 24.82	3 50 50.1	25 37.5	0.034 4271	2 6975	9 16.5
28	11 41 28.89	4 24.95	3 25 12.6	25 48.3	0.037 1246	2 6690	9 16.9
29	11 45 53.84	4 25.08	2 59 24.3	25 58.3	0.039 7936	2 6408	9 17.4
30	11 50 18.92	4 25.23	2 33 26.0	26 7.6	0.042 4344	2 6132	9 17.9
31	11 54 44.15	4 25.40	+2 7 18.4	26 16.3	0.045 0476	2 5857	9 18.4
Nov. 1	11 59 9.55	4 25.59	1 41 2.1	26 24.3	0.047 6333	2 5588	9 18.8
2	12 3 35.14	4 25.79	1 14 37.8	26 31.5	0.050 1921	2 5322	9 19.3
3	12 8 0.93	4 26.03	0 48 6.3	26 38.1	0.052 7243	2 5061	9 19.8
4	12 12 26.96	4 26.28	+0 21 28.2	26 44.0	0.055 2304	2 4803	9 20.3
5	12 16 53.24	4 26.56	−0 5 15.8	26 49.1	0.057 7107	2 4549	9 20.8
6	12 21 19.80	4 26.87	−0 32 4.9	26 53.6	0.060 1656	2 4300	9 21.3
7	12 25 46.67	4 27.21	0 58 58.5	26 57.5	0.062 5956	2 4055	9 21.8
8	12 30 13.88	4 27.57	1 25 56.0	27 0.5	0.065 0011	2 3811	9 22.3
9	12 34 41.45	4 27.97	1 52 56.5	27 2.8	0.067 3822	2 3571	9 22.8
10	12 39 9.42	4 28.39	2 19 59.3	27 4.5	0.069 7393	2 3333	9 23.4
11	12 43 37.81	4 28.85	2 47 3.8	27 5.4	0.072 0726	2 3097	9 23.9
12	12 48 6.66	4 29.33	−3 14 9.2	27 5.6	0.074 3823	2 2864	9 24.4
13	12 52 35.99	4 29.84	3 41 14.8	27 5.1	0.076 6687	2 2634	9 25.0
14	12 57 5.83	4 30.40	4 8 19.9	27 3.8	0.078 9321	2 2405	9 25.5
15	13 1 36.23	4 30.97	4 35 23.7	27 1.8	0.081 1726	2 2179	9 26.1
16	13 6 7.20	4 31.58	5 2 25.5	26 59.1	0.083 3905	2 1954	9 26.7
17	13 10 38.78	4 32.22	5 29 24.6	26 55.6	0.085 5859	2 1731	9 27.3
18	13 15 11.00	4 32.89	−5 56 20.2	26 51.3	0.087 7590	2 1509	9 27.9
19	13 19 43.89	4 33.59	6 23 11.5	26 46.3	0.089 9099	2 1288	9 28.5
20	13 24 17.48	4 34.32	6 49 57.8	26 40.5	0.092 0387	2 1069	9 29.1
21	13 28 51.80	4 35.07	7 16 38.3	26 33.9	0.094 1456	2 0850	9 29.7
22	13 33 26.87	4 35.86	7 43 12.2	26 26.6	0.096 2306	2 0634	9 30.4
23	13 38 2.73		−8 9 38.8		0.098 2940		9 31.1

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Nov. 23	13 38 2.73	4 36.67	− 8 9 38.8	26 18.5	0.098 2940	2 0417	9 31.1
24	13 42 39.40	4 37.50	8 35 57.3	26 9.5	0.100 3357	2 0203	9 31.7
25	13 47 16.90	4 38.36	9 2 6.8	25 59.7	0.102 3560	1 9990	9 32.4
26	13 51 55.26	4 39.24	9 28 6.5	25 49.4	0.104 3550	1 9778	9 33.1
27	13 56 34.50	4 40.15	9 53 55.9	25 38.0	0.106 3328	1 9568	9 33.8
28	14 1 14.65	4 41.07	10 19 33.9	25 25.9	0.108 2896	1 9361	9 34.6
29	14 5 55.72	4 42.02	−10 44 59.8	25 12.9	0.110 2257	1 9157	9 35.3
30	14 10 37.74	4 43.00	11 10 12.7	24 59.2	0.112 1414	1 8954	9 36.1
Dez. 1	14 15 20.74	4 43.98	11 35 11.9	24 44.7	0.114 0368	1 8753	9 36.9
2	14 20 4.72	4 44.99	11 59 56.6	24 29.4	0.115 9121	1 8558	9 37.7
3	14 24 49.71	4 46.02	12 24 26.0	24 13.2	0.117 7679	1 8363	9 38.5
4	14 29 35.73	4 47.08	12 48 39.2	23 56.3	0.119 6042	1 8171	9 39.3
5	14 34 22.81	4 48.14	−13 12 35.5	23 38.5	0.121 4213	1 7984	9 40.2
6	14 39 10.95	4 49.23	13 36 14.0	23 20.0	0.123 2197	1 7797	9 41.0
7	14 44 0.18	4 50.34	13 59 34.0	23 0.7	0.124 9994	1 7613	9 41.9
8	14 48 50.52	4 51.46	14 22 34.7	22 40.6	0.126 7607	1 7433	9 42.8
9	14 53 41.98	4 52.60	14 45 15.3	22 19.7	0.128 5040	1 7253	9 43.7
10	14 58 34.58	4 53.75	15 7 35.0	21 58.1	0.130 2293	1 7075	9 44.7
11	15 3 28.33	4 54.91	−15 29 33.1	21 35.5	0.131 9368	1 6900	9 45.6
12	15 8 23.24	4 56.09	15 51 8.6	21 12.3	0.133 6268	1 6725	9 46.6
13	15 13 19.33	4 57.27	16 12 20.9	20 48.3	0.135 2993	1 6552	9 47.6
14	15 18 16.60	4 58.45	16 33 9.2	20 23.4	0.136 9545	1 6381	9 48.6
15	15 23 15.05	4 59.66	16 53 32.6	19 57.9	0.138 5926	1 6210	9 49.7
16	15 28 14.71	5 0.85	17 13 30.5	19 31.5	0.140 2136	1 6042	9 50.7
17	15 33 15.56	5 2.05	−17 33 2.0	19 4.5	0.141 8178	1 5873	9 51.8
18	15 38 17.61	5 3.24	17 52 6.5	18 36.6	0.143 4051	1 5707	9 52.9
19	15 43 20.85	5 4.43	18 10 43.1	18 8.0	0.144 9758	1 5539	9 54.0
20	15 48 25.28	5 5.61	18 28 51.1	17 38.6	0.146 5297	1 5374	9 55.2
21	15 53 30.89	5 6.79	18 46 29.7	17 8.6	0.148 0671	1 5208	9 56.3
22	15 58 37.68	5 7.94	19 3 38.3	16 37.8	0.149 5879	1 5044	9 57.5
23	16 3 45.62	5 9.09	−19 20 16.1	16 6.4	0.151 0923	1 4879	9 58.7
24	16 8 54.71	5 10.20	19 36 22.5	15 34.1	0.152 5802	1 4715	9 59.9
25	16 14 4.91	5 11.31	19 51 56.6	15 1.4	0.154 0517	1 4551	10 1.2
26	16 19 16.22	5 12.37	20 6 58.0	14 27.7	0.155 5068	1 4390	10 2.4
27	16 24 28.59	5 13.42	20 21 25.7	13 53.7	0.156 9458	1 4230	10 3.7
28	16 29 42.01	5 14.44	20 35 19.4	13 18.8	0.158 3688	1 4070	10 5.0
29	16 34 56.45	5 15.42	−20 48 38.2	12 43.4	0.159 7758	1 3914	10 6.3
30	16 40 11.87	5 16.37	21 1 21.6	12 7.5	0.161 1672	1 3759	10 7.6
31	16 45 28.24	5 17.29	21 13 29.1	11 30.9	0.162 5431	1 3606	10 9.0
32	16 50 45.53		−21 25 0.0		0.163 9037		10 10.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	23 50 37.82	2 26.98	−1 25 11.2	17 24.8	0.104 9185	2 8416	17 15.5
1	23 53 4.80	2 27.06	1 7 46.4	17 24.8	0.107 7601	2 8283	17 14.0
2	23 55 31.86	2 27.15	0 50 21.6	17 24.8	0.110 5884	2 8149	17 12.5
3	23 57 59.01	2 27.25	0 32 56.8	17 24.6	0.113 4033	2 8017	17 11.0
4	0 0 26.26	2 27.35	−0 15 32.2	17 24.1	0.116 2050	2 7882	17 9.5
5	0 2 53.61	2 27.45	+0 1 51.9	17 23.8	0.118 9932	2 7747	17 8.0
6	0 5 21.06	2 27.57	+0 19 15.7	17 23.2	0.121 7679	2 7611	17 6.5
7	0 7 48.63	2 27.69	0 36 38.9	17 22.5	0.124 5290	2 7475	17 5.1
8	0 10 16.32	2 27.81	0 54 1.4	17 21.6	0.127 2765	2 7337	17 3.6
9	0 12 44.13	2 27.93	1 11 23.0	17 20.6	0.130 0102	2 7199	17 2.1
10	0 15 12.06	2 28.05	1 28 43.6	17 19.5	0.132 7301	2 7060	17 0.6
11	0 17 40.11	2 28.17	1 46 3.1	17 18.3	0.135 4361	2 6919	16 59.2
12	0 20 8.28	2 28.30	+2 3 21.4	17 16.8	0.138 1280	2 6779	16 57.7
13	0 22 36.58	2 28.43	2 20 38.2	17 15.3	0.140 8059	2 6639	16 56.2
14	0 25 5.01	2 28.55	2 37 53.5	17 13.7	0.143 4698	2 6497	16 54.8
15	0 27 33.56	2 28.69	2 55 7.2	17 11.8	0.146 1195	2 6357	16 53.3
16	0 30 2.25	2 28.81	3 12 19.0	17 9.8	0.148 7552	2 6215	16 51.8
17	0 32 31.06	2 28.94	3 29 28.8	17 7.8	0.151 3767	2 6074	16 50.4
18	0 35 0.00	2 29.07	+3 46 36.6	17 5.5	0.153 9841	2 5934	16 48.9
19	0 37 29.07	2 29.20	4 3 42.1	17 3.0	0.156 5775	2 5793	16 47.5
20	0 39 58.27	2 29.34	4 20 45.1	17 0.6	0.159 1568	2 5655	16 46.0
21	0 42 27.61	2 29.47	4 37 45.7	16 57.9	0.161 7223	2 5516	16 44.6
22	0 44 57.08	2 29.61	4 54 43.6	16 55.1	0.164 2739	2 5378	16 43.1
23	0 47 26.69	2 29.75	5 11 38.7	16 52.2	0.166 8117	2 5242	16 41.7
24	0 49 56.44	2 29.89	+5 28 30.9	16 49.1	0.169 3359	2 5107	16 40.2
25	0 52 26.33	2 30.04	5 45 20.0	16 46.0	0.171 8466	2 4973	16 38.8
26	0 54 56.37	2 30.19	6 2 6.0	16 42.6	0.174 3439	2 4840	16 37.3
27	0 57 26.56	2 30.34	6 18 48.6	16 39.3	0.176 8279	2 4708	16 35.9
28	0 59 56.90	2 30.51	6 35 27.9	16 35.7	0.179 2987	2 4578	16 34.5
29	1 2 27.41	2 30.69	6 52 3.6	16 32.2	0.181 7565	2 4446	16 33.0
30	1 4 58.10	2 30.86	+7 8 35.8	16 28.4	0.184 2011	2 4317	16 31.6
31	1 7 28.96	2 31.05	7 25 4.2	16 24.5	0.186 6328	2 4186	16 30.2
Febr. 1	1 10 0.01	2 31.24	7 41 28.7	16 20.6	0.189 0514	2 4055	16 28.8
2	1 12 31.25	2 31.44	7 57 49.3	16 16.5	0.191 4569	2 3924	16 27.3
3	1 15 2.69	2 31.64	8 14 5.8	16 12.3	0.193 8493	2 3791	16 25.9
4	1 17 34.33	2 31.85	8 30 18.1	16 8.0	0.196 2284	2 3658	16 24.5
5	1 20 6.18	2 32.06	+8 46 26.1	16 3.5	0.198 5942	2 3524	16 23.1
6	1 22 38.24	2 32.27	9 2 29.6	15 59.0	0.200 9466	2 3389	16 21.7
7	1 25 10.51	2 32.49	9 18 28.6	15 54.3	0.203 2855	2 3255	16 20.3
8	1 27 43.00	2 32.71	9 34 22.9	15 49.6	0.205 6110	2 3121	16 18.9
9	1 30 15.71	2 32.94	9 50 12.5	15 44.6	0.207 9231	2 2985	16 17.5
10	1 32 48.65		+10 5 57.1		0.210 2216		16 16.1

Mars 1940

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	1 32 48.65	2 33.15	+10 5 57.1	15 39.5	0.210 2216	2 2850	16 16.1
	11	1 35 21.80	2 33.38	10 21 36.6	15 34.4	0.212 5066	2 2713	16 14.7
	12	1 37 55.18	2 33.61	10 37 11.0	15 29.1	0.214 7779	2 2577	16 13.4
	13	1 40 28.79	2 33.84	10 52 40.1	15 23.6	0.217 0356	2 2440	16 12.0
	14	1 43 2.63	2 34.06	11 8 3.7	15 18.0	0.219 2796	2 2304	16 10.6
	15	1 45 36.69	2 34.29	11 23 21.7	15 12.3	0.221 5100	2 2167	16 9.2
	16	1 48 10.98	2 34.52	+11 38 34.0	15 6.5	0.223 7267	2 2031	16 7.9
	17	1 50 45.50	2 34.75	11 53 40.5	15 0.6	0.225 9298	2 1895	16 6.5
	18	1 53 20.25	2 34.99	12 8 41.1	14 54.5	0.228 1193	2 1761	16 5.1
	19	1 55 55.24	2 35.21	12 23 35.6	14 48.4	0.230 2954	2 1627	16 3.8
	20	1 58 30.45	2 35.45	12 38 24.0	14 42.0	0.232 4581	2 1494	16 2.4
	21	2 1 5.90	2 35.68	12 53 6.0	14 35.6	0.234 6075	2 1363	16 1.1
	22	2 3 41.58	2 35.92	+13 7 41.6	14 29.1	0.236 7438	2 1232	15 59.7
	23	2 6 17.50	2 36.16	13 22 10.7	14 22.4	0.238 8670	2 1103	15 58.4
	24	2 8 53.66	2 36.40	13 36 33.1	14 15.7	0.240 9773	2 0974	15 57.1
	25	2 11 30.06	2 36.65	13 50 48.8	14 8.8	0.243 0747	2 0847	15 55.7
	26	2 14 6.71	2 36.90	14 4 57.6	14 1.8	0.245 1594	2 0720	15 54.4
	27	2 16 43.61	2 37.16	14 18 59.4	13 54.8	0.247 2314	2 0593	15 53.1
	28	2 19 20.77	2 37.42	+14 32 54.2	13 47.6	0.249 2907	2 0467	15 51.8
	29	2 21 58.19	2 37.69	14 46 41.8	13 40.4	0.251 3374	2 0340	15 50.4
März	1	2 24 35.88	2 37.96	15 0 22.2	13 33.0	0.253 3714	2 0213	15 49.1
	2	2 27 13.84	2 38.23	15 13 55.2	13 25.6	0.255 3927	2 0086	15 47.8
	3	2 29 52.07	2 38.51	15 27 20.8	13 18.0	0.257 4013	1 9958	15 46.5
	4	2 32 30.58	2 38.79	15 40 38.8	13 10.3	0.259 3971	1 9831	15 45.2
	5	2 35 9.37	2 39.07	+15 53 49.1	13 2.5	0.261 3802	1 9702	15 43.9
	6	2 37 48.44	2 39.34	16 6 51.6	12 54.6	0.263 3504	1 9573	15 42.7
	7	2 40 27.78	2 39.63	16 19 46.2	12 46.7	0.265 3077	1 9444	15 41.4
	8	2 43 7.41	2 39.90	16 32 32.9	12 38.6	0.267 2521	1 9314	15 40.1
	9	2 45 47.31	2 40.19	16 45 11.5	12 30.4	0.269 1835	1 9184	15 38.8
	10	2 48 27.50	2 40.46	16 57 41.9	12 22.1	0.271 1019	1 9054	15 37.6
	11	2 51 7.96	2 40.73	+17 10 4.0	12 13.7	0.273 0073	1 8923	15 36.3
	12	2 53 48.69	2 41.02	17 22 17.7	12 5.2	0.274 8996	1 8793	15 35.0
	13	2 56 29.71	2 41.28	17 34 22.9	11 56.5	0.276 7789	1 8662	15 33.8
	14	2 59 10.99	2 41.55	17 46 19.4	11 47.9	0.278 6451	1 8532	15 32.5
	15	3 1 52.54	2 41.82	17 58 7.3	11 39.0	0.280 4983	1 8401	15 31.3
	16	3 4 34.36	2 42.09	18 9 46.3	11 30.1	0.282 3384	1 8272	15 30.0
	17	3 7 16.45	2 42.35	+18 21 16.4	11 21.1	0.284 1656	1 8143	15 28.8
	18	3 9 58.80	2 42.60	18 32 37.5	11 12.0	0.285 9799	1 8015	15 27.6
	19	3 12 41.40	2 42.86	18 43 49.5	11 2.7	0.287 7814	1 7886	15 26.3
	20	3 15 24.26	2 43.12	18 54 52.2	10 53.4	0.289 5700	1 7760	15 25.1
	21	3 18 7.38	2 43.36	19 5 45.6	10 44.1	0.291 3460	1 7635	15 23.9
	22	3 20 50.74		+19 16 29.7		0.293 1095		15 22.7

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	m s	° ′ ″	′ ″			h m
März 22	3 20 50.74	2 43.62	+19 16 29.7	10 34.5	0.293 1095	1 7509	15 22.7
23	3 23 34.36	2 43.86	19 27 4.2	10 25.0	0.294 8604	1 7387	15 21.5
24	3 26 18.22	2 44.11	19 37 29.2	10 15.3	0.296 5991	1 7264	15 20.3
25	3 29 2.33	2 44.36	19 47 44.5	10 5.5	0.298 3255	1 7143	15 19.1
26	3 31 46.69	2 44.60	19 57 50.0	9 55.8	0.300 0398	1 7021	15 17.9
27	3 34 31.29	2 44.86	20 7 45.8	9 45.8	0.301 7419	1 6900	15 16.7
28	3 37 16.15	2 45.11	+20 17 31.6	9 35.8	0.303 4319	1 6781	15 15.5
29	3 40 1.26	2 45.35	20 27 7.4	9 25.8	0.305 1100	1 6659	15 14.3
30	3 42 46.61	2 45.60	20 36 33.2	9 15.7	0.306 7759	1 6538	15 13.1
31	3 45 32.21	2 45.84	20 45 48.9	9 5.5	0.308 4297	1 6417	15 11.9
April 1	3 48 18.05	2 46.09	20 54 54.4	8 55.2	0.310 0714	1 6295	15 10.8
2	3 51 4.14	2 46.34	21 3 49.6	8 44.8	0.311 7009	1 6173	15 9.6
3	3 53 50.48	2 46.56	+21 12 34.4	8 34.5	0.313 3182	1 6051	15 8.4
4	3 56 37.04	2 46.80	21 21 8.9	8 24.0	0.314 9233	1 5928	15 7.3
5	3 59 23.84	2 47.02	21 29 32.9	8 13.4	0.316 5161	1 5805	15 6.1
6	4 2 10.86	2 47.24	21 37 46.3	8 2.8	0.318 0966	1 5683	15 4.9
7	4 4 58.10	2 47.46	21 45 49.1	7 52.1	0.319 6649	1 5560	15 3.8
8	4 7 45.56	2 47.67	21 53 41.2	7 41.3	0.321 2209	1 5436	15 2.6
9	4 10 33.23	2 47.88	+22 1 22.5	7 30.5	0.322 7645	1 5313	15 1.5
10	4 13 21.11	2 48.08	22 8 53.0	7 19.7	0.324 2958	1 5189	15 0.3
11	4 16 9.19	2 48.27	22 16 12.7	7 8.7	0.325 8147	1 5066	14 59.2
12	4 18 57.46	2 48.45	22 23 21.4	6 57.7	0.327 3213	1 4941	14 58.1
13	4 21 45.91	2 48.63	22 30 19.1	6 46.6	0.328 8154	1 4819	14 56.9
14	4 24 34.54	2 48.79	22 37 5.7	6 35.5	0.330 2973	1 4695	14 55.8
15	4 27 23.33	2 48.95	+22 43 41.2	6 24.3	0.331 7668	1 4574	14 54.7
16	4 30 12.28	2 49.11	22 50 5.5	6 13.0	0.333 2242	1 4452	14 53.6
17	4 33 1.39	2 49.26	22 56 18.5	6 1.9	0.334 6694	1 4331	14 52.5
18	4 35 50.65	2 49.39	23 2 20.4	5 50.5	0.336 1025	1 4212	14 51.3
19	4 38 40.04	2 49.53	23 8 10.9	5 39.1	0.337 5237	1 4093	14 50.2
20	4 41 29.57	2 49.65	23 13 50.0	5 27.7	0.338 9330	1 3975	14 49.1
21	4 44 19.22	2 49.77	+23 19 17.7	5 16.3	0.340 3305	1 3859	14 48.0
22	4 47 8.99	2 49.89	23 24 34.0	5 4.8	0.341 7164	1 3742	14 46.9
23	4 49 58.88	2 50.00	23 29 38.8	4 53.2	0.343 0906	1 3627	14 45.8
24	4 52 48.88	2 50.10	23 34 32.0	4 41.7	0.344 4533	1 3514	14 44.7
25	4 55 38.98	2 50.21	23 39 13.7	4 30.1	0.345 8047	1 3399	14 43.6
26	4 58 29.19	2 50.31	23 43 43.8	4 18.4	0.347 1446	1 3285	14 42.5
27	5 1 19.50	2 50.39	+23 48 2.2	4 6.8	0.348 4731	1 3170	14 41.3
28	5 4 9.89	2 50.48	23 52 9.0	3 55.1	0.349 7901	1 3055	14 40.2
29	5 7 0.37	2 50.56	23 56 4.1	3 43.4	0.351 0956	1 2940	14 39.1
30	5 9 50.93	2 50.64	23 59 47.5	3 31.7	0.352 3896	1 2824	14 38.0
Mai 1	5 12 41.57	2 50.70	24 3 19.2	3 20.0	0.353 6720	1 2709	14 36.9
2	5 15 32.27		+24 6 39.2		0.354 9429		14 35.8

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1940		h m s	m s	° ′ ″	′ ″			h m
Mai	2	5 15 32.27	2 50.77	+24 6 39.2	3 8.2	0.354 9429	1 2594	14 35.8
	3	5 18 23.04	2 50.82	24 9 47.4	2 56.5	0.356 2023	1 2478	14 34.8
	4	5 21 13.86	2 50.86	24 12 43.9	2 44.7	0.357 4501	1 2362	14 33.7
	5	5 24 4.72	2 50.89	24 15 28.6	2 32.9	0.358 6863	1 2245	14 32.6
	6	5 26 55.61	2 50.92	24 18 1.5	2 21.2	0.359 9108	1 2129	14 31.5
	7	5 29 46.53	2 50.94	24 20 22.7	2 9.3	0.361 1237	1 2011	14 30.4
	8	5 32 37.47	2 50.94	+24 22 32.0	1 57.6	0.362 3248	1 1895	14 29.3
	9	5 35 28.41	2 50.94	24 24 29.6	1 45.7	0.363 5143	1 1777	14 28.2
	10	5 38 19.35	2 50.93	24 26 15.3	1 33.9	0.364 6920	1 1660	14 27.1
	11	5 41 10.28	2 50.91	24 27 49.2	1 22.1	0.365 8580	1 1544	14 26.0
	12	5 44 1.19	2 50.88	24 29 11.3	1 10.3	0.367 0124	1 1427	14 24.9
	13	5 46 52.07	2 50.83	24 30 21.6	0 58.5	0.368 1551	1 1311	14 23.8
	14	5 49 42.90	2 50.79	+24 31 20.1	0 46.8	0.369 2862	1 1195	14 22.7
	15	5 52 33.69	2 50.72	24 32 6.9	0 35.0	0.370 4057	1 1080	14 21.6
	16	5 55 24.41	2 50.65	24 32 41.9	0 23.3	0.371 5137	1 0965	14 20.5
	17	5 58 15.06	2 50.57	24 33 5.2	0 11.5	0.372 6102	1 0853	14 19.4
	18	6 1 5.63	2 50.49	24 33 16.7	0 0.2	0.373 6955	1 0740	14 18.3
	19	6 3 56.12	2 50.39	24 33 16.5	0 11.9	0.374 7695	1 0629	14 17.2
	20	6 6 46.51	2 50.29	+24 33 4.6	0 23.6	0.375 8324	1 0519	14 16.1
	21	6 9 36.80	2 50.19	24 32 41.0	0 35.4	0.376 8843	1 0409	14 15.0
	22	6 12 26.99	2 50.07	24 32 5.6	0 46.9	0.377 9252	1 0299	14 13.9
	23	6 15 17.06	2 49.96	24 31 18.7	0 58.6	0.378 9551	1 0191	14 12.8
	24	6 18 7.02	2 49.83	24 30 20.1	1 10.2	0.379 9742	1 0081	14 11.7
	25	6 20 56.85	2 49.71	24 29 9.9	1 21.7	0.380 9823	9972	14 10.6
	26	6 23 46.56	2 49.57	+24 27 48.2	1 33.3	0.381 9795	9863	14 9.5
	27	6 26 36.13	2 49.43	24 26 14.9	1 44.7	0.382 9658	9753	14 8.4
	28	6 29 25.56	2 49.28	24 24 30.2	1 56.2	0.383 9411	9643	14 7.2
	29	6 32 14.84	2 49.13	24 22 34.0	2 7.6	0.384 9054	9534	14 6.1
	30	6 35 3.97	2 48.98	24 20 26.4	2 18.9	0.385 8588	9424	14 5.0
	31	6 37 52.95	2 48.80	24 18 7.5	2 30.3	0.386 8012	9314	14 3.9
Juni	1	6 40 41.75	2 48.64	+24 15 37.2	2 41.6	0.387 7326	9204	14 2.7
	2	6 43 30.39	2 48.45	24 12 55.6	2 52.8	0.388 6530	9093	14 1.6
	3	6 46 18.84	2 48.27	24 10 2.8	3 4.0	0.389 5623	8981	14 0.5
	4	6 49 7.11	2 48.08	24 6 58.8	3 15.2	0.390 4604	8870	13 59.3
	5	6 51 55.19	2 47.87	24 3 43.6	3 26.2	0.391 3474	8758	13 58.2
	6	6 54 43.06	2 47.67	24 0 17.4	3 37.3	0.392 2232	8646	13 57.0
	7	6 57 30.73	2 47.45	+23 56 40.1	3 48.2	0.393 0878	8534	13 55.9
	8	7 0 18.18	2 47.22	23 52 51.9	3 59.1	0.393 9412	8422	13 54.7
	9	7 3 5.40	2 46.99	23 48 52.8	4 9.9	0.394 7834	8310	13 53.6
	10	7 5 52.39	2 46.75	23 44 42.9	4 20.6	0.395 6144	8199	13 52.4
	11	7 8 39.14	2 46.50	23 40 22.3	4 31.4	0.396 4343	8088	13 51.3
	12	7 11 25.64		+23 35 50.9		0.397 2431		13 50.1

Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Juni 12	7 11 25.64	2 46.25	+23 35 50.9	4 42.1	0.397 2431	7976	13 50.1
13	7 14 11.89	2 45.99	23 31 8.8	4 52.7	0.398 0407	7867	13 48.9
14	7 16 57.88	2 45.72	23 26 16.1	5 3.2	0.398 8274	7758	13 47.7
15	7 19 43.60	2 45.45	23 21 12.9	5 13.6	0.399 6032	7649	13 46.5
16	7 22 29.05	2 45.17	23 15 59.3	5 24.0	0.400 3681	7542	13 45.3
17	7 25 14.22	2 44.89	23 10 35.3	5 34.4	0.401 1223	7434	13 44.2
18	7 27 59.11	2 44.61	+23 5 0.9	5 44.6	0.401 8657	7328	13 43.0
19	7 30 43.72	2 44.33	22 59 16.3	5 54.8	0.402 5985	7221	13 41.8
20	7 33 28.05	2 44.03	22 53 21.5	6 4.9	0.403 3206	7116	13 40.6
21	7 36 12.08	2 43.75	22 47 16.6	6 14.9	0.404 0322	7011	13 39.4
22	7 38 55.83	2 43.45	22 41 1.7	6 24.9	0.404 7333	6905	13 38.2
23	7 41 39.28	2 43.17	22 34 36.8	6 34.8	0.405 4238	6800	13 36.9
24	7 44 22.45	2 42.87	+22 28 2.0	6 44.7	0.406 1038	6696	13 35.7
25	7 47 5.32	2 42.57	22 21 17.3	6 54.4	0.406 7734	6590	13 34.5
26	7 49 47.89	2 42.27	22 14 22.9	7 4.1	0.407 4324	6484	13 33.2
27	7 52 30.16	2 41.98	22 7 18.8	7 13.7	0.408 0808	6378	13 32.0
28	7 55 12.14	2 41.67	22 0 5.1	7 23.2	0.408 7186	6270	13 30.8
29	7 57 53.81	2 41.37	21 52 41.9	7 32.6	0.409 3456	6164	13 29.5
30	8 0 35.18	2 41.06	+21 45 9.3	7 42.0	0.409 9620	6056	13 28.3
Juli 1	8 3 16.24	2 40.75	21 37 27.3	7 51.3	0.410 5676	5949	13 27.0
2	8 5 56.99	2 40.44	21 29 36.0	8 0.4	0.411 1625	5840	13 25.7
3	8 8 37.43	2 40.13	21 21 35.6	8 9.5	0.411 7465	5732	13 24.5
4	8 11 17.56	2 39.81	21 13 26.1	8 18.6	0.412 3197	5623	13 23.2
5	8 13 57.37	2 39.49	21 5 7.5	8 27.4	0.412 8820	5514	13 21.9
6	8 16 36.86	2 39.16	+20 56 40.1	8 36.2	0.413 4334	5404	13 20.6
7	8 19 16.02	2 38.84	20 48 3.9	8 45.0	0.413 9738	5295	13 19.3
8	8 21 54.86	2 38.52	20 39 18.9	8 53.6	0.414 5033	5187	13 18.0
9	8 24 33.38	2 38.18	20 30 25.3	9 2.1	0.415 0220	5077	13 16.7
10	8 27 11.56	2 37.85	20 21 23.2	9 10.6	0.415 5297	4969	13 15.4
11	8 29 49.41	2 37.52	20 12 12.6	9 19.0	0.416 0266	4861	13 14.1
12	8 32 26.93	2 37.18	+20 2 53.6	9 27.2	0.416 5127	4754	13 12.8
13	8 35 4.11	2 36.85	19 53 26.4	9 35.4	0.416 9881	4647	13 11.5
14	8 37 40.96	2 36.51	19 43 51.0	9 43.5	0.417 4528	4541	13 10.1
15	8 40 17.47	2 36.18	19 34 7.5	9 51.4	0.417 9069	4436	13 8.8
16	8 42 53.65	2 35.84	19 24 16.1	9 59.4	0.418 3505	4330	13 7.5
17	8 45 29.49	2 35.50	19 14 16.7	10 7.2	0.418 7835	4226	13 6.1
18	8 48 4.99	2 35.18	+19 4 9.5	10 14.9	0.419 2061	4122	13 4.7
19	8 50 40.17	2 34.86	18 53 54.6	10 22.5	0.419 6183	4018	13 3.4
20	8 53 15.03	2 34.53	18 43 32.1	10 30.1	0.420 0201	3914	13 2.0
21	8 55 49.56	2 34.21	18 33 2.0	10 37.6	0.420 4115	3810	13 0.7
22	8 58 23.77	2 33.89	18 22 24.4	10 45.1	0.420 7925	3706	12 59.3
23	9 0 57.66		+18 11 39.3		0.421 1631		12 57.9

Column group heading: 0^h Welt-Zeit (spans Scheinbare Rektaszension, Scheinbare Deklination, log Δ)

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Juli 23	9 0 57.66	2 33.58	+18 11 39.3	10 52.3	0.421 1631	3601	12 57.9
24	9 3 31.24	2 33.26	18 0 47.0	10 59.5	0.421 5232	3497	12 56.5
25	9 6 4.50	2 32.96	17 49 47.5	11 6.7	0.421 8729	3392	12 55.1
26	9 8 37.46	2 32.64	17 38 40.8	11 13.7	0.422 2121	3287	12 53.7
27	9 11 10.10	2 32.35	17 27 27.1	11 20.6	0.422 5408	3181	12 52.3
28	9 13 42.45	2 32.04	17 16 6.5	11 27.5	0.422 8589	3075	12 50.9
29	9 16 14.49	2 31.75	+17 4 39.0	11 34.2	0.423 1664	2969	12 49.5
30	9 18 46.24	2 31.44	16 53 4.8	11 40.9	0.423 4633	2861	12 48.1
31	9 21 17.68	2 31.16	16 41 23.9	11 47.4	0.423 7494	2754	12 46.7
Aug. 1	9 23 48.84	2 30.86	16 29 36.5	11 53.9	0.424 0248	2646	12 45.3
2	9 26 19.70	2 30.57	16 17 42.6	12 0.3	0.424 2894	2537	12 43.8
3	9 28 50.27	2 30.28	16 5 42.3	12 6.6	0.424 5431	2429	12 42.4
4	9 31 20.55	2 30.00	+15 53 35.7	12 12.7	0.424 7860	2321	12 40.9
5	9 33 50.55	2 29.70	15 41 23.0	12 18.8	0.425 0181	2211	12 39.5
6	9 36 20.25	2 29.42	15 29 4.2	12 24.7	0.425 2392	2102	12 38.1
7	9 38 49.67	2 29.14	15 16 39.5	12 30.6	0.425 4494	1993	12 36.6
8	9 41 18.81	2 28.86	15 4 8.9	12 36.4	0.425 6487	1885	12 35.2
9	9 43 47.67	2 28.57	14 51 32.5	12 42.0	0.425 8372	1777	12 33.7
10	9 46 16.24	2 28.29	+14 38 50.5	12 47.6	0.426 0149	1670	12 32.2
11	9 48 44.53	2 28.03	14 26 2.9	12 53.1	0.426 1819	1563	12 30.7
12	9 51 12.56	2 27.75	14 13 9.8	12 58.5	0.426 3382	1457	12 29.3
13	9 53 40.31	2 27.49	14 0 11.3	13 3.8	0.426 4839	1352	12 27.8
14	9 56 7.80	2 27.24	13 47 7.5	13 9.0	0.426 6191	1246	12 26.3
15	9 58 35.04	2 26.98	13 33 58.5	13 14.2	0.426 7437	1141	12 24.8
16	10 1 2.02	2 26.74	+13 20 44.3	13 19.2	0.426 8578	1036	12 23.3
17	10 3 28.76	2 26.49	13 7 25.1	13 24.2	0.426 9614	930	12 21.8
18	10 5 55.25	2 26.26	12 54 0.9	13 29.0	0.427 0544	826	12 20.3
19	10 8 21.51	2 26.03	12 40 31.9	13 33.8	0.427 1370	720	12 18.8
20	10 10 47.54	2 25.80	12 26 58.1	13 38.6	0.427 2090	615	12 17.3
21	10 13 13.34	2 25.59	12 13 19.5	13 43.1	0.427 2705	510	12 15.8
22	10 15 38.93	2 25.37	+11 59 36.4	13 47.7	0.427 3215	404	12 14.3
23	10 18 4.30	2 25.17	11 45 48.7	13 52.1	0.427 3619	299	12 12.8
24	10 20 29.47	2 24.96	11 31 56.6	13 56.5	0.427 3918	193	12 11.2
25	10 22 54.43	2 24.78	11 18 0.1	14 0.8	0.427 4111	85	12 9.7
26	10 25 19.21	2 24.58	11 3 59.3	14 4.9	0.427 4196	23	12 8.2
27	10 27 43.79	2 24.39	10 49 54.4	14 9.0	0.427 4173	132	12 6.7
28	10 30 8.18	2 24.22	+10 35 45.4	14 13.0	0.427 4041	241	12 5.1
29	10 32 32.40	2 24.04	10 21 32.4	14 16.8	0.427 3800	350	12 3.6
30	10 34 56.44	2 23.87	10 7 15.6	14 20.7	0.427 3450	459	12 2.0
31	10 37 20.31	2 23.71	9 52 54.9	14 24.4	0.427 2991	570	12 0.5
Sept. 1	10 39 44.02	2 23.54	9 38 30.5	14 27.9	0.427 2421	680	11 58.9
2	10 42 7.56		+ 9 24 2.6		0.427 1741		11 57.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Sept. 2	10 42 7.56	2 23.39	+9 24 2.6	14 31.5	0.427 1741	790	11 57.4
3	10 44 30.95	2 23.22	9 9 31.1	14 34.9	0.427 0951	902	11 55.8
4	10 46 54.17	2 23.08	8 54 56.2	14 38.1	0.427 0049	1014	11 54.3
5	10 49 17.25	2 22.93	8 40 18.1	14 41.4	0.426 9035	1124	11 52.7
6	10 51 40.18	2 22.78	8 25 36.7	14 44.4	0.426 7911	1234	11 51.2
7	10 54 2.96	2 22.65	8 10 52.3	14 47.5	0.426 6677	1345	11 49.6
8	10 56 25.61	2 22.51	+7 56 4.8	14 50.4	0.426 5332	1453	11 48.0
9	10 58 48.12	2 22.38	7 41 14.4	14 53.2	0.426 3879	1562	11 46.5
10	11 1 10.50	2 22.26	7 26 21.2	14 56.0	0.426 2317	1672	11 44.9
11	11 3 32.76	2 22.15	7 11 25.2	14 58.7	0.426 0645	1780	11 43.3
12	11 5 54.91	2 22.04	6 56 26.5	15 1.2	0.425 8865	1888	11 41.8
13	11 8 16.95	2 21.93	6 41 25.3	15 3.8	0.425 6977	1996	11 40.2
14	11 10 38.88	2 21.84	+6 26 21.5	15 6.1	0.425 4981	2104	11 38.6
15	11 13 0.72	2 21.76	6 11 15.4	15 8.5	0.425 2877	2211	11 37.0
16	11 15 22.48	2 21.67	5 56 6.9	15 10.8	0.425 0666	2318	11 35.4
17	11 17 44.15	2 21.61	5 40 56.1	15 12.8	0.424 8348	2426	11 33.9
18	11 20 5.76	2 21.53	5 25 43.3	15 15.0	0.424 5922	2535	11 32.3
19	11 22 27.29	2 21.48	5 10 28.3	15 16.9	0.424 3387	2643	11 30.7
20	11 24 48.77	2 21.44	+4 55 11.4	15 18.8	0.424 0744	2753	11 29.1
21	11 27 10.21	2 21.38	4 39 52.6	15 20.6	0.423 7991	2862	11 27.6
22	11 29 31.59	2 21.35	4 24 32.0	15 22.4	0.423 5129	2972	11 26.0
23	11 31 52.94	2 21.33	4 9 9.6	15 24.0	0.423 2157	3082	11 24.4
24	11 34 14.27	2 21.30	3 53 45.6	15 25.6	0.422 9075	3193	11 22.8
25	11 36 35.57	2 21.29	3 38 20.0	15 27.1	0.422 5882	3304	11 21.2
26	11 38 56.86	2 21.27	+3 22 52.9	15 28.4	0.422 2578	3417	11 19.6
27	11 41 18.13	2 21.26	3 7 24.5	15 29.7	0.421 9161	3530	11 18.0
28	11 43 39.39	2 21.27	2 51 54.8	15 30.8	0.421 5631	3643	11 16.4
29	11 46 0.66	2 21.27	2 36 24.0	15 31.9	0.421 1988	3757	11 14.8
30	11 48 21.93	2 21.28	2 20 52.1	15 32.9	0.420 8231	3872	11 13.3
Okt. 1	11 50 43.21	2 21.29	2 5 19.2	15 33.8	0.420 4359	3987	11 11.7
2	11 53 4.50	2 21.31	+1 49 45.4	15 34.5	0.420 0372	4102	11 10.1
3	11 55 25.81	2 21.34	1 34 10.9	15 35.2	0.419 6270	4217	11 8.5
4	11 57 47.15	2 21.36	1 18 35.7	15 35.7	0.419 2053	4331	11 6.9
5	12 0 8.51	2 21.39	1 3 0.0	15 36.3	0.418 7722	4444	11 5.3
6	12 2 29.90	2 21.43	0 47 23.7	15 36.6	0.418 3278	4557	11 3.8
7	12 4 51.33	2 21.47	0 31 47.1	15 36.9	0.417 8721	4670	11 2.2
8	12 7 12.80	2 21.53	+0 16 10.2	15 37.1	0.417 4051	4783	11 0.6
9	12 9 34.33	2 21.58	+0 0 33.1	15 37.2	0.416 9268	4896	10 59.0
10	12 11 55.91	2 21.64	−0 15 4.1	15 37.2	0.416 4372	5007	10 57.4
11	12 14 17.55	2 21.72	0 30 41.3	15 37.1	0.415 9365	5120	10 55.8
12	12 16 39.27	2 21.79	0 46 18.4	15 37.0	0.415 4245	5231	10 54.3
13	12 19 1.06		−1 1 55.4		0.414 9014		10 52.7

Tag	Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		log Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Okt. 13	12 19 1.06	2 21.88	− 1 1 55.4	15 36.7	0.414 9014	5342	10 52.7
14	12 21 22.94	2 21.98	1 17 32.1	15 36.4	0.414 3672	5454	10 51.1
15	12 23 44.92	2 22.08	1 33 8.5	15 36.0	0.413 8218	5565	10 49.5
16	12 26 7.00	2 22.19	1 48 44.5	15 35.4	0.413 2653	5677	10 48.0
17	12 28 29.19	2 22.31	2 4 19.9	15 34.8	0.412 6976	5790	10 46.4
18	12 30 51.50	2 22.43	2 19 54.7	15 34.1	0.412 1186	5902	10 44.8
19	12 33 13.93	2 22.56	− 2 35 28.8	15 33.3	0.411 5284	6014	10 43.3
20	12 35 36.49	2 22.70	2 51 2.1	15 32.5	0.410 9270	6128	10 41.7
21	12 37 59.19	2 22.85	3 6 34.6	15 31.4	0.410 3142	6242	10 40.1
22	12 40 22.04	2 23.01	3 22 6.0	15 30.4	0.409 6900	6355	10 38.6
23	12 42 45.05	2 23.16	3 37 36.4	15 29.3	0.409 0545	6471	10 37.0
24	12 45 8.21	2 23.33	3 53 5.7	15 27.9	0.408 4074	6587	10 35.5
25	12 47 31.54	2 23.50	− 4 8 33.6	15 26.6	0.407 7487	6704	10 33.9
26	12 49 55.04	2 23.68	4 24 0.2	15 25.1	0.407 0783	6821	10 32.4
27	12 52 18.72	2 23.86	4 39 25.3	15 23.5	0.406 3962	6939	10 30.8
28	12 54 42.58	2 24.04	4 54 48.8	15 21.9	0.405 7023	7057	10 29.3
29	12 57 6.62	2 24.23	5 10 10.7	15 20.0	0.404 9966	7176	10 27.8
30	12 59 30.85	2 24.43	5 25 30.7	15 18.1	0.404 2790	7293	10 26.2
31	13 1 55.28	2 24.63	− 5 40 48.8	15 16.1	0.403 5497	7412	10 24.7
Nov. 1	13 4 19.91	2 24.83	5 56 4.9	15 14.0	0.402 8085	7531	10 23.2
2	13 6 44.74	2 25.03	6 11 18.9	15 11.8	0.402 0554	7648	10 21.6
3	13 9 9.77	2 25.25	6 26 30.7	15 9.4	0.401 2906	7766	10 20.1
4	13 11 35.02	2 25.46	6 41 40.1	15 6.9	0.400 5140	7883	10 18.6
5	13 14 0.48	2 25.69	6 56 47.0	15 4.4	0.399 7257	8000	10 17.1
6	13 16 26.17	2 25.92	− 7 11 51.4	15 1.7	0.398 9257	8115	10 15.6
7	13 18 52.09	2 26.15	7 26 53.1	14 59.0	0.398 1142	8231	10 14.1
8	13 21 18.24	2 26.39	7 41 52.1	14 56.2	0.397 2911	8346	10 12.6
9	13 23 44.63	2 26.64	7 56 48.3	14 53.2	0.396 4565	8462	10 11.1
10	13 26 11.27	2 26.90	8 11 41.5	14 50.1	0.395 6103	8576	10 9.6
11	13 28 38.17	2 27.15	8 26 31.6	14 47.0	0.394 7527	8692	10 8.1
12	13 31 5.32	2 27.43	− 8 41 18.6	14 43.7	0.393 8835	8806	10 6.6
13	13 33 32.75	2 27.70	8 56 2.3	14 40.3	0.393 0029	8922	10 5.1
14	13 36 0.45	2 27.98	9 10 42.6	14 36.9	0.392 1107	9037	10 3.6
15	13 38 28.43	2 28.27	9 25 19.5	14 33.3	0.391 2070	9152	10 2.1
16	13 40 56.70	2 28.56	9 39 52.8	14 29.7	0.390 2918	9268	10 0.7
17	13 43 25.26	2 28.87	9 54 22.5	14 25.9	0.389 3650	9384	9 59.2
18	13 45 54.13	2 29.18	−10 8 48.4	14 22.0	0.388 4266	9501	9 57.8
19	13 48 23.31	2 29.49	10 23 10.4	14 18.0	0.387 4765	9617	9 56.3
20	13 50 52.80	2 29.81	10 37 28.4	14 14.0	0.386 5148	9735	9 54.9
21	13 53 22.61	2 30.13	10 51 42.4	14 9.7	0.385 5413	9852	9 53.4
22	13 55 52.74	2 30.46	11 5 52.1	14 5.5	0.384 5561	9972	9 52.0
23	13 58 23.20		−11 19 57.6		0.383 5589		9 50.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	m s	° ′ ″	′ ″			h m
Nov. 23	13 58 23.20	2 30.80	−11 19 57.6	14 1.1	0.383 5589	1 0091	9 50.6
24	14 0 54.00	2 31.13	11 33 58.7	13 56.5	0.382 5498	1 0211	9 49.1
25	14 3 25.13	2 31.48	11 47 55.2	13 51.9	0.381 5287	1 0332	9 47.7
26	14 5 56.61	2 31.81	12 1 47.1	13 47.0	0.380 4955	1 0453	9 46.3
27	14 8 28.42	2 32.16	12 15 34.1	13 42.2	0.379 4502	1 0574	9 44.9
28	14 11 0.58	2 32.50	12 29 16.3	13 37.2	0.378 3928	1 0695	9 43.5
29	14 13 33.08	2 32.84	−12 42 53.5	13 32.0	0.377 3233	1 0817	9 42.1
30	14 16 5.92	2 33.20	12 56 25.5	13 26.7	0.376 2416	1 0936	9 40.7
Dez. 1	14 18 39.12	2 33.55	13 9 52.2	13 21.4	0.375 1480	1 1057	9 39.3
2	14 21 12.67	2 33.91	13 23 13.6	13 15.8	0.374 0423	1 1176	9 37.9
3	14 23 46.58	2 34.26	13 36 29.4	13 10.3	0.372 9247	1 1296	9 36.5
4	14 26 20.84	2 34.63	13 49 39.7	13 4.6	0.371 7951	1 1414	9 35.2
5	14 28 55.47	2 34.99	−14 2 44.3	12 58.7	0.370 6537	1 1531	9 33.8
6	14 31 30.46	2 35.36	14 15 43.0	12 52.7	0.369 5006	1 1649	9 32.5
7	14 34 5.82	2 35.73	14 28 35.7	12 46.8	0.368 3357	1 1766	9 31.1
8	14 36 41.55	2 36.11	14 41 22.5	12 40.5	0.367 1591	1 1883	9 29.8
9	14 39 17.66	2 36.49	14 54 3.0	12 34.2	0.365 9708	1 1999	9 28.4
10	14 41 54.15	2 36.88	15 6 37.2	12 27.8	0.364 7709	1 2115	9 27.1
11	14 44 31.03	2 37.27	−15 19 5.0	12 21.3	0.363 5594	1 2231	9 25.8
12	14 47 8.30	2 37.66	15 31 26.3	12 14.7	0.362 3363	1 2347	9 24.5
13	14 49 45.96	2 38.06	15 43 41.0	12 8.0	0.361 1016	1 2462	9 23.2
14	14 52 24.02	2 38.46	15 55 49.0	12 1.1	0.359 8554	1 2578	9 21.9
15	14 55 2.48	2 38.87	16 7 50.1	11 54.2	0.358 5976	1 2695	9 20.6
16	14 57 41.35	2 39.27	16 19 44.3	11 47.1	0.357 3281	1 2811	9 19.3
17	15 0 20.62	2 39.68	−16 31 31.4	11 39.9	0.356 0470	1 2929	9 18.0
18	15 3 0.30	2 40.10	16 43 11.3	11 32.6	0.354 7541	1 3046	9 16.7
19	15 5 40.40	2 40.51	16 54 43.9	11 25.2	0.353 4495	1 3164	9 15.4
20	15 8 20.91	2 40.93	17 6 9.1	11 17.7	0.352 1331	1 3284	9 14.2
21	15 11 1.84	2 41.34	17 17 26.8	11 10.1	0.350 8047	1 3402	9 12.9
22	15 13 43.18	2 41.77	17 28 36.9	11 2.4	0.349 4645	1 3523	9 11.6
23	15 16 24.95	2 42.18	−17 39 39.3	10 54.4	0.348 1122	1 3643	9 10.4
24	15 19 7.13	2 42.59	17 50 33.7	10 46.5	0.346 7479	1 3763	9 9.2
25	15 21 49.72	2 43.01	18 1 20.2	10 38.4	0.345 3716	1 3883	9 7.9
26	15 24 32.73	2 43.41	18 11 58.6	10 30.1	0.343 9833	1 4005	9 6.7
27	15 27 16.14	2 43.83	18 22 28.7	10 21.8	0.342 5828	1 4125	9 5.5
28	15 29 59.97	2 44.22	18 32 50.5	10 13.3	0.341 1703	1 4245	9 4.3
29	15 32 44.19	2 44.63	−18 43 3.8	10 4.7	0.339 7458	1 4365	9 3.1
30	15 35 28.82	2 45.03	18 53 8.5	9 56.1	0.338 3093	1 4484	9 1.9
31	15 38 13.85	2 45.42	19 3 4.6	9 47.2	0.336 8609	1 4603	9 0.7
32	15 40 59.27		−19 12 51.8		0.335 4006		8 59.5

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Jan. 0	0 5 52.37	25.28	−0 46 46.2	3 0.9	0.697 1058	1 3715	17 29.2
1	0 6 17.65	25.87	0 43 45.3	3 4.7	0.698 4773	1 3644	17 25.7
2	0 6 43.52	26.47	0 40 40.6	3 8.3	0.699 8417	1 3569	17 22.2
3	0 7 9.99	27.06	0 37 32.3	3 12.0	0.701 1986	1 3492	17 18.7
4	0 7 37.05	27.63	0 34 20.3	3 15.7	0.702 5478	1 3412	17 15.3
5	0 8 4.68	28.21	0 31 4.6	3 19.2	0.703 8890	1 3330	17 11.8
6	0 8 32.89	28.77	−0 27 45.4	3 22.8	0.705 2220	1 3245	17 8.3
7	0 9 1.66	29.33	0 24 22.6	3 26.2	0.706 5465	1 3158	17 4.9
8	0 9 30.99	29.89	0 20 56.4	3 29.7	0.707 8623	1 3068	17 1.4
9	0 10 0.88	30.44	0 17 26.7	3 33.1	0.709 1691	1 2975	16 58.0
10	0 10 31.32	30.97	0 13 53.6	3 36.4	0.710 4666	1 2879	16 54.6
11	0 11 2.29	31.50	0 10 17.2	3 39.6	0.711 7545	1 2782	16 51.2
12	0 11 33.79	32.03	−0 6 37.6	3 42.9	0.713 0327	1 2683	16 47.8
13	0 12 5.82	32.55	−0 2 54.7	3 46.1	0.714 3010	1 2581	16 44.4
14	0 12 38.37	33.05	+0 0 51.4	3 49.2	0.715 5591	1 2477	16 41.0
15	0 13 11.42	33.56	0 4 40.6	3 52.2	0.716 8068	1 2372	16 37.6
16	0 13 44.98	34.04	0 8 32.8	3 55.2	0.718 0440	1 2264	16 34.3
17	0 14 19.02	34.53	0 12 28.0	3 58.2	0.719 2704	1 2155	16 30.9
18	0 14 53.55	35.01	+0 16 26.2	4 1.1	0.720 4859	1 2044	16 27.5
19	0 15 28.56	35.48	0 20 27.3	4 4.0	0.721 6903	1 1932	16 24.2
20	0 16 4.04	35.94	0 24 31.3	4 6.8	0.722 8835	1 1818	16 20.8
21	0 16 39.98	36.40	0 28 38.1	4 9.4	0.724 0653	1 1703	16 17.5
22	0 17 16.38	36.84	0 32 47.5	4 12.2	0.725 2356	1 1588	16 14.2
23	0 17 53.22	37.28	0 36 59.7	4 14.8	0.726 3944	1 1471	16 10.9
24	0 18 30.50	37.72	+0 41 14.5	4 17.4	0.727 5415	1 1353	16 7.6
25	0 19 8.22	38.14	0 45 31.9	4 20.0	0.728 6768	1 1234	16 4.3
26	0 19 46.36	38.57	0 49 51.9	4 22.5	0.729 8002	1 1114	16 1.0
27	0 20 24.93	38.98	0 54 14.4	4 24.9	0.730 9116	1 0993	15 57.7
28	0 21 3.91	39.39	0 58 39.3	4 27.4	0.732 0109	1 0871	15 54.4
29	0 21 43.30	39.79	1 3 6.7	4 29.7	0.733 0980	1 0747	15 51.1
30	0 22 23.09	40.19	+1 7 36.4	4 32.0	0.734 1727	1 0622	15 47.8
31	0 23 3.28	40.58	1 12 8.4	4 34.4	0.735 2349	1 0496	15 44.6
Febr. 1	0 23 43.86	40.97	1 16 42.8	4 36.5	0.736 2845	1 0369	15 41.3
2	0 24 24.83	41.35	1 21 19.3	4 38.8	0.737 3214	1 0241	15 38.1
3	0 25 6.18	41.72	1 25 58.1	4 40.9	0.738 3455	1 0112	15 34.8
4	0 25 47.90	42.10	1 30 39.0	4 43.0	0.739 3567	9981	15 31.6
5	0 26 30.00	42.45	+1 35 22.0	4 45.0	0.740 3548	9849	15 28.4
6	0 27 12.45	42.81	1 40 7.0	4 47.1	0.741 3397	9717	15 25.2
7	0 27 55.26	43.16	1 44 54.1	4 49.0	0.742 3114	9582	15 21.9
8	0 28 38.42	43.51	1 49 43.1	4 50.9	0.743 2696	9447	15 18.7
9	0 29 21.93	43.84	1 54 34.0	4 52.7	0.744 2143	9311	15 15.5
10	0 30 5.77		+1 59 26.7		0.745 1454		15 12.3

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Febr. 10	0 30 5.77	44.17	+1 59 26.7	4 54.6	0.745 1454	9174	15 12.3
11	0 30 49.94	44.49	2 4 21.3	4 56.3	0.746 0628	9037	15 9.1
12	0 31 34.43	44.80	2 9 17.6	4 58.0	0.746 9665	8899	15 5.9
13	0 32 19.23	45.12	2 14 15.6	4 59.6	0.747 8564	8760	15 2.8
14	0 33 4.35	45.42	2 19 15.2	5 1.3	0.748 7324	8619	14 59.6
15	0 33 49.77	45.71	2 24 16.5	5 2.8	0.749 5943	8480	14 56.4
16	0 34 35.48	46.00	+2 29 19.3	5 4.4	0.750 4423	8339	14 53.2
17	0 35 21.48	46.28	2 34 23.7	5 5.7	0.751 2762	8198	14 50.0
18	0 36 7.76	46.57	2 39 29.4	5 7.2	0.752 0960	8057	14 46.9
19	0 36 54.33	46.83	2 44 36.6	5 8.6	0.752 9017	7916	14 43.8
20	0 37 41.16	47.10	2 49 45.2	5 9.9	0.753 6933	7774	14 40.6
21	0 38 28.26	47.36	2 54 55.1	5 11.2	0.754 4707	7633	14 37.4
22	0 39 15.62	47.61	+3 0 6.3	5 12.4	0.755 2340	7491	14 34.3
23	0 40 3.23	47.85	3 5 18.7	5 13.6	0.755 9831	7348	14 31.2
24	0 40 51.08	48.11	3 10 32.3	5 14.8	0.756 7179	7206	14 28.0
25	0 41 39.19	48.34	3 15 47.1	5 15.9	0.757 4385	7064	14 24.9
26	0 42 27.53	48.58	3 21 3.0	5 16.9	0.758 1449	6921	14 21.8
27	0 43 16.11	48.81	3 26 19.9	5 18.1	0.758 8370	6778	14 18.6
28	0 44 4.92	49.04	+3 31 38.0	5 19.0	0.759 5148	6634	14 15.5
29	0 44 53.96	49.26	3 36 57.0	5 20.0	0.760 1782	6490	14 12.4
März 1	0 45 43.22	49.48	3 42 17.0	5 20.9	0.760 8272	6346	14 9.3
2	0 46 32.70	49.69	3 47 37.9	5 21.8	0.761 4618	6200	14 6.2
3	0 47 22.39	49.90	3 52 59.7	5 22.7	0.762 0818	6054	14 3.1
4	0 48 12.29	50.10	3 58 22.4	5 23.4	0.762 6872	5908	14 0.0
5	0 49 2.39	50.29	+4 3 45.8	5 24.2	0.763 2780	5761	13 56.9
6	0 49 52.68	50.49	4 9 10.0	5 25.0	0.763 8541	5614	13 53.8
7	0 50 43.17	50.68	4 14 35.0	5 25.6	0.764 4155	5467	13 50.7
8	0 51 33.85	50.86	4 20 0.6	5 26.2	0.764 9622	5319	13 47.6
9	0 52 24.71	51.03	4 25 26.8	5 26.8	0.765 4941	5171	13 44.5
10	0 53 15.74	51.20	4 30 53.6	5 27.4	0.766 0112	5024	13 41.4
11	0 54 6.94	51.37	+4 36 21.0	5 27.9	0.766 5136	4875	13 38.3
12	0 54 58.31	51.53	4 41 48.9	5 28.4	0.767 0011	4727	13 35.3
13	0 55 49.84	51.68	4 47 17.3	5 28.8	0.767 4738	4579	13 32.2
14	0 56 41.52	51.82	4 52 46.1	5 29.1	0.767 9317	4430	13 29.1
15	0 57 33.34	51.97	4 58 15.2	5 29.5	0.768 3747	4282	13 26.1
16	0 58 25.31	52.11	5 3 44.7	5 29.8	0.768 8029	4133	13 23.0
17	0 59 17.42	52.24	+5 9 14.5	5 30.0	0.769 2162	3984	13 19.9
18	1 0 9.66	52.36	5 14 44.5	5 30.3	0.769 6146	3836	13 16.9
19	1 1 2.02	52.49	5 20 14.8	5 30.4	0.769 9982	3688	13 13.8
20	1 1 54.51	52.61	5 25 45.2	5 30.6	0.770 3670	3541	13 10.7
21	1 2 47.12	52.72	5 31 15.8	5 30.7	0.770 7211	3394	13 7.7
22	1 3 39.84		+5 36 46.5		0.771 0605		13 4.6

Jupiter 1940

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
März 22	1 3 39.84	52.84	+5 36 46.5	5 30.8	0.771 0605	3247	13 4.6
23	1 4 32.68	52.93	5 42 17.3	5 30.9	0.771 3852	3101	13 1.6
24	1 5 25.61	53.04	5 47 48.2	5 30.8	0.771 6953	2955	12 58.5
25	1 6 18.65	53.14	5 53 19.0	5 30.8	0.771 9908	2808	12 55.5
26	1 7 11.79	53.24	5 58 49.8	5 30.8	0.772 2716	2660	12 52.4
27	1 8 5.03	53.33	6 4 20.6	5 30.7	0.772 5376	2514	12 49.3
28	1 8 58.36	53.42	+6 9 51.3	5 30.6	0.772 7890	2367	12 46.3
29	1 9 51.78	53.50	6 15 21.9	5 30.4	0.773 0257	2220	12 43.3
30	1 10 45.28	53.58	6 20 52.3	5 30.3	0.773 2477	2072	12 40.2
31	1 11 38.86	53.66	6 26 22.6	5 30.0	0.773 4549	1924	12 37.2
April 1	1 12 32.52	53.73	6 31 52.6	5 29.8	0.773 6473	1776	12 34.1
2	1 13 26.25	53.80	6 37 22.4	5 29.5	0.773 8249	1630	12 31.1
3	1 14 20.05	53.86	+6 42 51.9	5 29.2	0.773 9879	1481	12 28.1
4	1 15 13.91	53.92	6 48 21.1	5 28.8	0.774 1360	1332	12 25.0
5	1 16 7.83	53.97	6 53 49.9	5 28.4	0.774 2692	1185	12 22.0
6	1 17 1.80	54.01	6 59 18.3	5 28.0	0.774 3877	1037	12 18.9
7	1 17 55.81	54.06	7 4 46.3	5 27.5	0.774 4914	890	12 15.9
8	1 18 49.87	54.10	7 10 13.8	5 27.0	0.774 5804	741	12 12.9
9	1 19 43.97	54.13	+7 15 40.8	5 26.5	0.774 6545	593	12 9.8
10	1 20 38.10	54.16	7 21 7.3	5 25.9	0.774 7138	445	12 6.8
11	1 21 32.26	54.19	7 26 33.2	5 25.4	0.774 7583	296	12 3.8
12	1 22 26.45	54.20	7 31 58.6	5 24.7	0.774 7879	149	12 0.7
13	1 23 20.65	54.22	7 37 23.3	5 24.0	0.774 8028	2	11 57.7
14	1 24 14.87	54.22	7 42 47.3	5 23.3	0.774 8030	$\overline{144}$	11 54.7
15	1 25 9.09	54.24	+7 48 10.6	5 22.5	0.774 7886	290	11 51.6
16	1 26 3.33	54.23	7 53 33.1	5 21.8	0.774 7596	435	11 48.6
17	1 26 57.56	54.23	7 58 54.9	5 21.0	0.774 7161	580	11 45.6
18	1 27 51.79	54.22	8 4 15.9	5 20.2	0.774 6581	725	11 42.5
19	1 28 46.01	54.21	8 9 36.1	5 19.3	0.774 5856	869	11 39.5
20	1 29 40.22	54.19	8 14 55.4	5 18.4	0.774 4987	1014	11 36.5
21	1 30 34.41	54.18	+8 20 13.8	5 17.6	0.774 3973	1157	11 33.4
22	1 31 28.59	54.16	8 25 31.4	5 16.6	0.774 2816	1301	11 30.4
23	1 32 22.75	54.13	8 30 48.0	5 15.6	0.774 1515	1445	11 27.4
24	1 33 16.88	54.10	8 36 3.6	5 14.6	0.774 0070	1588	11 24.3
25	1 34 10.98	54.07	8 41 18.2	5 13.7	0.773 8482	1732	11 21.3
26	1 35 5.05	54.03	8 46 31.9	5 12.6	0.773 6750	1876	11 18.3
27	1 35 59.08	54.00	+8 51 44.5	5 11.6	0.773 4874	2019	11 15.2
28	1 36 53.08	53.95	8 56 56.1	5 10.4	0.773 2855	2163	11 12.2
29	1 37 47.03	53.91	9 2 6.5	5 9.4	0.773 0692	2306	11 9.2
30	1 38 40.94	53.85	9 7 15.9	5 8.2	0.772 8386	2450	11 6.1
Mai 1	1 39 34.79	53.79	9 12 24.1	5 7.0	0.772 5936	2593	11 3.1
2	1 40 28.58		+9 17 31.1		0.772 3343		11 0.1

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Mai 2	1 40 28.58	53.73	+ 9 17 31.1	5 5.8	0.772 3343	2737	11 0.1
3	1 41 22.31	53.66	9 22 36.9	5 4.6	0.772 0606	2880	10 57.0
4	1 42 15.97	53.60	9 27 41.5	5 3.3	0.771 7726	3024	10 54.0
5	1 43 9.57	53.51	9 32 44.8	5 2.0	0.771 4702	3167	10 50.9
6	1 44 3.08	53.44	9 37 46.8	5 0.7	0.771 1535	3310	10 47.9
7	1 44 56.52	53.34	9 42 47.5	4 59.3	0.770 8225	3453	10 44.8
8	1 45 49.86	53.25	+ 9 47 46.8	4 57.9	0.770 4772	3595	10 41.8
9	1 46 43.11	53.15	9 52 44.7	4 56.5	0.770 1177	3738	10 38.7
10	1 47 36.26	53.05	9 57 41.2	4 55.1	0.769 7439	3878	10 35.7
11	1 48 29.31	52.94	10 2 36.3	4 53.7	0.769 3561	4020	10 32.6
12	1 49 22.25	52.83	10 7 30.0	4 52.1	0.768 9541	4161	10 29.6
13	1 50 15.08	52.71	10 12 22.1	4 50.6	0.768 5380	4300	10 26.5
14	1 51 7.79	52.58	+10 17 12.7	4 49.1	0.768 1080	4440	10 23.5
15	1 52 0.37	52.46	10 22 1.8	4 47.5	0.767 6640	4578	10 20.4
16	1 52 52.83	52.33	10 26 49.3	4 45.9	0.767 2062	4716	10 17.3
17	1 53 45.16	52.19	10 31 35.2	4 44.3	0.766 7346	4855	10 14.3
18	1 54 37.35	52.05	10 36 19.5	4 42.6	0.766 2491	4991	10 11.2
19	1 55 29.40	51.91	10 41 2.1	4 41.0	0.765 7500	5129	10 8.1
20	1 56 21.31	51.76	+10 45 43.1	4 39.3	0.765 2371	5266	10 5.1
21	1 57 13.07	51.61	10 50 22.4	4 37.6	0.764 7105	5402	10 2.0
22	1 58 4.68	51.45	10 55 0.0	4 35.9	0.764 1703	5538	9 58.9
23	1 58 56.13	51.30	10 59 35.9	4 34.2	0.763 6165	5674	9 55.8
24	1 59 47.43	51.13	11 4 10.1	4 32.4	0.763 0491	5810	9 52.8
25	2 0 38.56	50.96	11 8 42.5	4 30.6	0.762 4681	5945	9 49.7
26	2 1 29.52	50.79	+11 13 13.1	4 28.9	0.761 8736	6080	9 46.6
27	2 2 20.31	50.61	11 17 42.0	4 27.0	0.761 2656	6216	9 43.5
28	2 3 10.92	50.42	11 22 9.0	4 25.1	0.760 6440	6352	9 40.4
29	2 4 1.34	50.23	11 26 34.1	4 23.3	0.760 0088	6486	9 37.3
30	2 4 51.57	50.04	11 30 57.4	4 21.3	0.759 3602	6621	9 34.2
31	2 5 41.61	49.83	11 35 18.7	4 19.4	0.758 6981	6756	9 31.1
Juni 1	2 6 31.44	49.63	+11 39 38.1	4 17.5	0.758 0225	6890	9 28.0
2	2 7 21.07	49.41	11 43 55.6	4 15.5	0.757 3335	7023	9 24.9
3	2 8 10.48	49.19	11 48 11.1	4 13.5	0.756 6312	7157	9 21.8
4	2 8 59.67	48.97	11 52 24.6	4 11.5	0.755 9155	7289	9 18.6
5	2 9 48.64	48.74	11 56 36.1	4 9.5	0.755 1866	7421	9 15.5
6	2 10 37.38	48.50	12 0 45.6	4 7.3	0.754 4445	7553	9 12.4
7	2 11 25.88	48.25	+12 4 52.9	4 5.3	0.753 6892	7683	9 9.3
8	2 12 14.13	48.00	12 8 58.2	4 3.2	0.752 9209	7814	9 6.2
9	2 13 2.13	47.75	12 13 1.4	4 1.0	0.752 1395	7943	9 3.0
10	2 13 49.88	47.48	12 17 2.4	3 58.8	0.751 3452	8072	8 59.9
11	2 14 37.36	47.22	12 21 1.2	3 56.7	0.750 5380	8200	8 56.7
12	2 15 24.58		+12 24 57.9		0.749 7180		8 53.6

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Juni 12	2 15 24.58	46.94	+12 24 57.9	3 54.5	0.749 7180	8326	8 53.6
13	2 16 11.52	46.67	12 28 52.4	3 52.2	0.748 8854	8451	8 50.4
14	2 16 58.19	46.37	12 32 44.6	3 50.0	0.748 0403	8577	8 47.3
15	2 17 44.56	46.09	12 36 34.6	3 47.8	0.747 1826	8700	8 44.1
16	2 18 30.65	45.79	12 40 22.4	3 45.5	0.746 3126	8824	8 40.9
17	2 19 16.44	45.50	12 44 7.9	3 43.2	0.745 4302	8947	8 37.7
18	2 20 1.94	45.19	+12 47 51.1	3 40.9	0.744 5355	9069	8 34.6
19	2 20 47.13	44.88	12 51 32.0	3 38.6	0.743 6286	9190	8 31.4
20	2 21 32.01	44.57	12 55 10.6	3 36.2	0.742 7096	9311	8 28.2
21	2 22 16.58	44.24	12 58 46.8	3 33.9	0.741 7785	9432	8 25.0
22	2 23 0.82	43.92	13 2 20.7	3 31.5	0.740 8353	9551	8 21.8
23	2 23 44.74	43.59	13 5 52.2	3 29.2	0.739 8802	9670	8 18.6
24	2 24 28.33	43.24	+13 9 21.4	3 26.7	0.738 9132	9789	8 15.4
25	2 25 11.57	42.89	13 12 48.1	3 24.3	0.737 9343	9907	8 12.2
26	2 25 54.46	42.55	13 16 12.4	3 21.8	0.736 9436	1 0025	8 8.9
27	2 26 37.01	42.18	13 19 34.2	3 19.4	0.735 9411	1 0142	8 5.7
28	2 27 19.19	41.81	13 22 53.6	3 16.9	0.734 9269	1 0258	8 2.5
29	2 28 1.00	41.43	13 26 10.5	3 14.4	0.733 9011	1 0372	7 59.2
30	2 28 42.43	41.05	+13 29 24.9	3 11.8	0.732 8639	1 0487	7 56.0
Juli 1	2 29 23.48	40.67	13 32 36.7	3 9.3	0.731 8152	1 0599	7 52.8
2	2 30 4.15	40.26	13 35 46.0	3 6.7	0.730 7553	1 0712	7 49.5
3	2 30 44.41	39.86	13 38 52.7	3 4.1	0.729 6841	1 0822	7 46.2
4	2 31 24.27	39.44	13 41 56.8	3 1.5	0.728 6019	1 0932	7 43.0
5	2 32 3.71	39.02	13 44 58.3	2 58.8	0.727 5087	1 1040	7 39.7
6	2 32 42.73	38.59	+13 47 57.1	2 56.2	0.726 4047	1 1147	7 36.4
7	2 33 21.32	38.16	13 50 53.3	2 53.5	0.725 2900	1 1252	7 33.1
8	2 33 59.48	37.72	13 53 46.8	2 50.8	0.724 1648	1 1356	7 29.8
9	2 34 37.20	37.26	13 56 37.6	2 48.1	0.723 0292	1 1457	7 26.5
10	2 35 14.46	36.81	13 59 25.7	2 45.4	0.721 8835	1 1557	7 23.2
11	2 35 51.27	36.35	14 2 11.1	2 42.7	0.720 7278	1 1656	7 19.8
12	2 36 27.62	35.87	+14 4 53.8	2 39.9	0.719 5622	1 1752	7 16.5
13	2 37 3.49	35.40	14 7 33.7	2 37.1	0.718 3870	1 1848	7 13.2
14	2 37 38.89	34.91	14 10 10.8	2 34.3	0.717 2022	1 1941	7 9.8
15	2 38 13.80	34.43	14 12 45.1	2 31.5	0.716 0081	1 2034	7 6.5
16	2 38 48.23	33.93	14 15 16.6	2 28.7	0.714 8047	1 2124	7 3.1
17	2 39 22.16	33.43	14 17 45.3	2 25.9	0.713 5923	1 2214	6 59.7
18	2 39 55.59	32.92	+14 20 11.2	2 23.0	0.712 3709	1 2302	6 56.3
19	2 40 28.51	32.41	14 22 34.2	2 20.1	0.711 1407	1 2388	6 52.9
20	2 41 0.92	31.88	14 24 54.3	2 17.3	0.709 9019	1 2473	6 49.6
21	2 41 32.80	31.35	14 27 11.6	2 14.4	0.708 6546	1 2556	6 46.2
22	2 42 4.15	30.82	14 29 26.0	2 11.5	0.707 3990	1 2638	6 42.7
23	2 42 34.97		+14 31 37.5		0.706 1352		6 39.3

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	s	° ′ ″	′ ″			h m
Juli	23	2 42 34.97	30.27	+14 31 37.5	2 8.6	0.706 1352	1 2718	6 39.3
	24	2 43 5.24	29.71	14 33 46.1	2 5.6	0.704 8634	1 2797	6 35.9
	25	2 43 34.95	29.15	14 35 51.7	2 2.7	0.703 5837	1 2873	6 32.4
	26	2 44 4.10	28.58	14 37 54.4	1 59.7	0.702 2964	1 2947	6 29.0
	27	2 44 32.68	28.01	14 39 54.1	1 56.7	0.701 0017	1 3019	6 25.5
	28	2 45 0.69	27.42	14 41 50.8	1 53.7	0.699 6998	1 3089	6 22.1
	29	2 45 28.11	26.82	+14 43 44.5	1 50.7	0.698 3909	1 3157	6 18.6
	30	2 45 54.93	26.22	14 45 35.2	1 47.6	0.697 0752	1 3221	6 15.1
	31	2 46 21.15	25.61	14 47 22.8	1 44.6	0.695 7531	1 3285	6 11.6
Aug.	1	2 46 46.76	24.99	14 49 7.4	1 41.5	0.694 4246	1 3345	6 8.1
	2	2 47 11.75	24.36	14 50 48.9	1 38.3	0.693 0901	1 3402	6 4.6
	3	2 47 36.11	23.73	14 52 27.2	1 35.3	0.691 7499	1 3457	6 1.0
	4	2 47 59.84	23.08	+14 54 2.5	1 32.1	0.690 4042	1 3508	5 57.5
	5	2 48 22.92	22.42	14 55 34.6	1 28.9	0.689 0534	1 3557	5 53.9
	6	2 48 45.34	21.77	14 57 3.5	1 25.7	0.687 6977	1 3602	5 50.4
	7	2 49 7.11	21.11	14 58 29.2	1 22.6	0.686 3375	1 3643	5 46.8
	8	2 49 28.22	20.44	14 59 51.8	1 19.4	0.684 9732	1 3682	5 43.2
	9	2 49 48.66	19.76	15 1 11.2	1 16.2	0.683 6050	1 3718	5 39.6
	10	2 50 8.42	19.09	+15 2 27.4	1 13.0	0.682 2332	1 3749	5 36.0
	11	2 50 27.51	18.40	15 3 40.4	1 9.8	0.680 8583	1 3778	5 32.4
	12	2 50 45.91	17.71	15 4 50.2	1 6.6	0.679 4805	1 3804	5 28.8
	13	2 51 3.62	17.00	15 5 56.8	1 3.3	0.678 1001	1 3827	5 25.1
	14	2 51 20.62	16.30	15 7 0.1	1 0.0	0.676 7174	1 3846	5 21.5
	15	2 51 36.92	15.59	15 8 0.1	0 56.8	0.675 3328	1 3863	5 17.8
	16	2 51 52.51	14.87	+15 8 56.9	0 53.6	0.673 9465	1 3875	5 14.1
	17	2 52 7.38	14.15	15 9 50.5	0 50.2	0.672 5590	1 3885	5 10.4
	18	2 52 21.53	13.43	15 10 40.7	0 47.0	0.671 1705	1 3892	5 6.7
	19	2 52 34.96	12.69	15 11 27.7	0 43.6	0.669 7813	1 3893	5 3.0
	20	2 52 47.65	11.95	15 12 11.3	0 40.4	0.668 3920	1 3893	4 59.3
	21	2 52 59.60	11.21	15 12 51.7	0 37.0	0.667 0027	1 3887	4 55.6
	22	2 53 10.81	10.46	+15 13 28.7	0 33.7	0.665 6140	1 3879	4 51.8
	23	2 53 21.27	9.71	15 14 2.4	0 30.3	0.664 2261	1 3866	4 48.1
	24	2 53 30.98	8.93	15 14 32.7	0 27.0	0.662 8395	1 3849	4 44.3
	25	2 53 39.91	8.17	15 14 59.7	0 23.6	0.661 4546	1 3829	4 40.5
	26	2 53 48.08	7.40	15 15 23.3	0 20.2	0.660 0717	1 3803	4 36.7
	27	2 53 55.48	6.62	15 15 43.5	0 16.8	0.658 6914	1 3772	4 32.9
	28	2 54 2.10	5.83	+15 16 0.3	0 13.4	0.657 3142	1 3738	4 29.1
	29	2 54 7.93	5.05	15 16 13.7	0 10.0	0.655 9404	1 3698	4 25.2
	30	2 54 12.98	4.26	15 16 23.7	0 6.6	0.654 5706	1 3653	4 21.4
	31	2 54 17.24	3.46	15 16 30.3	0 3.2	0.653 2053	1 3604	4 17.5
Sept.	1	2 54 20.70	2.66	15 16 33.5	0 0.3	0.651 8449	1 3548	4 13.6
	2	2 54 23.36		+15 16 33.2		0.650 4901		4 9.7

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	s	° ′ ″	′ ″			h m
Sept. 2	2 54 23.36	1.86	+15 16 33.2	0 3.6	0.650 4901	1 3488	4 9.7
3	2 54 25.22	1.06	15 16 29.6	0 7.1	0.649 1413	1 3421	4 5.8
4	2 54 26.28	0.26	15 16 22.5	0 10.6	0.647 7992	1 3350	4 1.9
5	2 54 26.54	0.54	15 16 11.9	0 13.9	0.646 4642	1 3273	3 58.0
6	2 54 26.00	1.34	15 15 58.0	0 17.3	0.645 1369	1 3191	3 54.1
7	2 54 24.66	2.14	15 15 40.7	0 20.7	0.643 8178	1 3103	3 50.1
8	2 54 22.52	2.94	+15 15 20.0	0 24.2	0.642 5075	1 3009	3 46.1
9	2 54 19.58	3.74	15 14 55.8	0 27.5	0.641 2066	1 2911	3 42.1
10	2 54 15.84	4.54	15 14 28.3	0 30.9	0.639 9155	1 2806	3 38.1
11	2 54 11.30	5.33	15 13 57.4	0 34.2	0.638 6349	1 2698	3 34.1
12	2 54 5.97	6.12	15 13 23.2	0 37.6	0.637 3651	1 2584	3 30.1
13	2 53 59.85	6.91	15 12 45.6	0 41.0	0.636 1067	1 2465	3 26.1
14	2 53 52.94	7.70	+15 12 4.6	0 44.2	0.634 8602	1 2341	3 22.0
15	2 53 45.24	8.48	15 11 20.4	0 47.6	0.633 6261	1 2211	3 18.0
16	2 53 36.76	9.26	15 10 32.8	0 50.8	0.632 4050	1 2075	3 13.9
17	2 53 27.50	10.04	15 9 42.0	0 54.2	0.631 1975	1 1934	3 9.8
18	2 53 17.46	10.81	15 8 47.8	0 57.4	0.630 0041	1 1787	3 5.7
19	2 53 6.65	11.59	15 7 50.4	1 0.6	0.628 8254	1 1634	3 1.6
20	2 52 55.06	12.35	+15 6 49.8	1 3.9	0.627 6620	1 1475	2 57.5
21	2 52 42.71	13.11	15 5 45.9	1 7.0	0.626 5145	1 1312	2 53.3
22	2 52 29.60	13.86	15 4 38.9	1 10.3	0.625 3833	1 1141	2 49.2
23	2 52 15.74	14.62	15 3 28.6	1 13.4	0.624 2692	1 0964	2 45.0
24	2 52 1.12	15.35	15 2 15.2	1 16.5	0.623 1728	1 0782	2 40.9
25	2 51 45.77	16.08	15 0 58.7	1 19.6	0.622 0946	1 0594	2 36.7
26	2 51 29.69	16.81	+14 59 39.1	1 22.6	0.621 0352	1 0398	2 32.5
27	2 51 12.88	17.53	14 58 16.5	1 25.7	0.619 9954	1 0197	2 28.3
28	2 50 55.35	18.23	14 56 50.8	1 28.7	0.618 9757	9990	2 24.0
29	2 50 37.12	18.93	14 55 22.1	1 31.6	0.617 9767	9776	2 19.8
30	2 50 18.19	19.62	14 53 50.5	1 34.5	0.616 9991	9557	2 15.6
Okt. 1	2 49 58.57	20.28	14 52 16.0	1 37.4	0.616 0434	9331	2 11.3
2	2 49 38.29	20.94	+14 50 38.6	1 40.2	0.615 1103	9099	2 7.0
3	2 49 17.35	21.59	14 48 58.4	1 42.9	0.614 2004	8860	2 2.7
4	2 48 55.76	22.21	14 47 15.5	1 45.5	0.613 3144	8616	1 58.4
5	2 48 33.55	22.83	14 45 30.0	1 48.2	0.612 4528	8367	1 54.1
6	2 48 10.72	23.41	14 43 41.8	1 50.7	0.611 6161	8113	1 49.8
7	2 47 47.31	24.00	14 41 51.1	1 53.2	0.610 8048	7854	1 45.5
8	2 47 23.31	24.55	+14 39 57.9	1 55.6	0.610 0194	7589	1 41.2
9	2 46 58.76	25.10	14 38 2.3	1 58.0	0.609 2605	7321	1 36.9
10	2 46 33.66	25.62	14 36 4.3	2 0.2	0.608 5284	7048	1 32.5
11	2 46 8.04	26.14	14 34 4.1	2 2.4	0.607 8236	6770	1 28.1
12	2 45 41.90	26.63	14 32 1.7	2 4.5	0.607 1466	6489	1 23.8
13	2 45 15.27		+14 29 57.2		0.606 4977		1 19.4

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Okt. 13	2 45 15.27	27.10	+14 29 57.2	2 6.6	0.606 4977	6202	1 19.4
14	2 44 48.17	27.55	14 27 50.6	2 8.5	0.605 8775	5911	1 15.0
15	2 44 20.62	27.99	14 25 42.1	2 10.4	0.605 2864	5616	1 10.6
16	2 43 52.63	28.40	14 23 31.7	2 12.2	0.604 7248	5316	1 6.2
17	2 43 24.23	28.80	14 21 19.5	2 13.9	0.604 1932	5014	1 1.8
18	2 42 55.43	29.18	14 19 5.6	2 15.6	0.603 6918	4707	0 57.4
19	2 42 26.25	29.53	+14 16 50.0	2 17.0	0.603 2211	4398	0 53.0
20	2 41 56.72	29.86	14 14 33.0	2 18.5	0.602 7813	4085	0 48.6
21	2 41 26.86	30.18	14 12 14.5	2 19.8	0.602 3728	3768	0 44.2
22	2 40 56.68	30.46	14 9 54.7	2 21.0	0.601 9960	3449	0 39.7
23	2 40 26.22	30.74	14 7 33.7	2 22.2	0.601 6511	3125	0 35.3
24	2 39 55.48	30.98	14 5 11.5	2 23.3	0.601 3386	2801	0 30.9
25	2 39 24.50	31.21	+14 2 48.2	2 24.2	0.601 0585	2471	0 26.4
26	2 38 53.29	31.40	14 0 24.0	2 25.0	0.600 8114	2139	0 22.0
27	2 38 21.89	31.58	13 57 59.0	2 25.8	0.600 5975	1806	0 17.5
28	2 37 50.31	31.72	13 55 33.2	2 26.3	0.600 4169	1469	0 13.0
29	2 37 18.59	31.85	13 53 6.9	2 26.8	0.600 2700	1131	0 8.6
30	2 36 46.74	31.94	13 50 40.1	2 27.2	0.600 1569	793	{0 4.1 / 23 59.7}
31	2 36 14.80	32.01	+13 48 12.9	2 27.4	0.600 0776	453	23 55.2
Nov. 1	2 35 42.79	32.06	13 45 45.5	2 27.6	0.600 0323	114	23 50.8
2	2 35 10.73	32.08	13 43 17.9	2 27.6	0.600 0209	— 228	23 46.3
3	2 34 38.65	32.07	13 40 50.3	2 27.5	0.600 0437	568	23 41.8
4	2 34 6.58	32.03	13 38 22.8	2 27.2	0.600 1005	910	23 37.4
5	2 33 34.55	31.97	13 35 55.6	2 26.8	0.600 1915	1250	23 32.9
6	2 33 2.58	31.89	+13 33 28.8	2 26.3	0.600 3165	1589	23 28.4
7	2 32 30.69	31.77	13 31 2.5	2 25.7	0.600 4754	1927	23 24.0
8	2 31 58.92	31.64	13 28 36.8	2 25.0	0.600 6681	2263	23 19.5
9	2 31 27.28	31.49	13 26 11.8	2 24.1	0.600 8944	2597	23 15.1
10	2 30 55.79	31.30	13 23 47.7	2 23.2	0.601 1541	2930	23 10.6
11	2 30 24.49	31.10	13 21 24.5	2 22.1	0.601 4471	3260	23 6.2
12	2 29 53.39	30.87	+13 19 2.4	2 20.9	0.601 7731	3590	23 1.7
13	2 29 22.52	30.61	13 16 41.5	2 19.6	0.602 1321	3916	22 57.3
14	2 28 51.91	30.34	13 14 21.9	2 18.2	0.602 5237	4241	22 52.8
15	2 28 21.57	30.05	13 12 3.7	2 16.6	0.602 9478	4562	22 48.4
16	2 27 51.52	29.74	13 9 47.1	2 15.0	0.603 4040	4881	22 44.0
17	2 27 21.78	29.39	13 7 32.1	2 13.2	0.603 8921	5197	22 39.6
18	2 26 52.39	29.03	+13 5 18.9	2 11.4	0.604 4118	5509	22 35.2
19	2 26 23.36	28.66	13 3 7.5	2 9.4	0.604 9627	5819	22 30.8
20	2 25 54.70	28.26	13 0 58.1	2 7.3	0.605 5446	6126	22 26.4
21	2 25 26.44	27.83	12 58 50.8	2 5.1	0.606 1572	6428	22 22.0
22	2 24 58.61	27.40	12 56 45.7	2 2.8	0.606 8000	6728	22 17.6
23	2 24 31.21		+12 54 42.9		0.607 4728		22 13.2

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	s	° ′ ″	′ ″			h m
Nov. 23	2 24 31.21	26.93	+12 54 42.9	2 0.4	0.607 4728	7023	22 13.2
24	2 24 4.28	26.46	12 52 42.5	1 58.0	0.608 1751	7314	22 8.8
25	2 23 37.82	25.95	12 50 44.5	1 55.3	0.608 9065	7602	22 4.5
26	2 23 11.87	25.43	12 48 49.2	1 52.7	0.609 6667	7884	22 0.1
27	2 22 46.44	24.90	12 46 56.5	1 49.9	0.610 4551	8162	21 55.8
28	2 22 21.54	24.34	12 45 6.6	1 46.9	0.611 2713	8434	21 51.4
29	2 21 57.20	23.76	+12 43 19.7	1 44.0	0.612 1147	8702	21 47.1
30	2 21 33.44	23.17	12 41 35.7	1 40.8	0.612 9849	8964	21 42.8
Dez. 1	2 21 10.27	22.56	12 39 54.9	1 37.7	0.613 8813	9221	21 38.5
2	2 20 47.71	21.93	12 38 17.2	1 34.5	0.614 8034	9471	21 34.2
3	2 20 25.78	21.29	12 36 42.7	1 31.2	0.615 7505	9715	21 29.9
4	2 20 4.49	20.64	12 35 11.5	1 27.8	0.616 7220	9953	21 25.6
5	2 19 43.85	19.97	+12 33 43.7	1 24.3	0.617 7173	1 0186	21 21.4
6	2 19 23.88	19.29	12 32 19.4	1 20.8	0.618 7359	1 0411	21 17.1
7	2 19 4.59	18.61	12 30 58.6	1 17.2	0.619 7770	1 0631	21 12.9
8	2 18 45.98	17.91	12 29 41.4	1 13.5	0.620 8401	1 0844	21 8.6
9	2 18 28.07	17.20	12 28 27.9	1 9.9	0.621 9245	1 1051	21 4.4
10	2 18 10.87	16.48	12 27 18.0	1 6.1	0.623 0296	1 1253	21 0.2
11	2 17 54.39	15.76	+12 26 11.9	1 2.3	0.624 1549	1 1449	20 56.0
12	2 17 38.63	15.02	12 25 9.6	0 58.5	0.625 2998	1 1637	20 51.8
13	2 17 23.61	14.27	12 24 11.1	0 54.6	0.626 4635	1 1820	20 47.7
14	2 17 9.34	13.53	12 23 16.5	0 50.7	0.627 6455	1 1997	20 43.5
15	2 16 55.81	12.77	12 22 25.8	0 46.7	0.628 8452	1 2167	20 39.4
16	2 16 43.04	12.01	12 21 39.1	0 42.7	0.630 0619	1 2332	20 35.2
17	2 16 31.03	11.24	+12 20 56.4	0 38.8	0.631 2951	1 2492	20 31.1
18	2 16 19.79	10.47	12 20 17.6	0 34.7	0.632 5443	1 2644	20 27.0
19	2 16 9.32	9.69	12 19 42.9	0 30.6	0.633 8087	1 2793	20 22.9
20	2 15 59.63	8.91	12 19 12.3	0 26.5	0.635 0880	1 2934	20 18.8
21	2 15 50.72	8.13	12 18 45.8	0 22.5	0.636 3814	1 3070	20 14.8
22	2 15 42.59	7.33	12 18 23.3	0 18.4	0.637 6884	1 3201	20 10.7
23	2 15 35.26	6.53	+12 18 4.9	0 14.1	0.639 0085	1 3325	20 6.7
24	2 15 28.73	5.73	12 17 50.8	0 10.0	0.640 3410	1 3443	20 2.6
25	2 15 23.00	4.92	12 17 40.8	0 5.8	0.641 6853	1 3555	19 58.6
26	2 15 18.08	4.12	12 17 35.0	0 1.7	0.643 0408	1 3662	19 54.6
27	2 15 13.96	3.31	12 17 33.3	0 2.5	0.644 4070	1 3762	19 50.6
28	2 15 10.65	2.50	12 17 35.8	0 6.7	0.645 7832	1 3856	19 46.6
29	2 15 8.15	1.68	+12 17 42.5	0 10.9	0.647 1688	1 3944	19 42.7
30	2 15 6.47	0.87	12 17 53.4	0 15.1	0.648 5632	1 4026	19 38.7
31	2 15 5.60	0.06	12 18 8.5	0 19.2	0.649 9658	1 4102	19 34.8
32	2 15 5.54		+12 18 27.7		0.651 3760		19 30.9

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Jan. 0	1 34 15.27	1.00	+7 5 22.2	0 24.5	0.952 5701	7741	18 57.1
1	1 34 16.27	1.42	7 5 46.7	0 27.0	0.953 3442	7765	18 53.2
2	1 34 17.69	1.84	7 6 13.7	0 29.4	0.954 1207	7786	18 49.3
3	1 34 19.53	2.26	7 6 43.1	0 31.9	0.954 8993	7803	18 45.4
4	1 34 21.79	2.67	7 7 15.0	0 34.3	0.955 6796	7820	18 41.5
5	1 34 24.46	3.09	7 7 49.3	0 36.8	0.956 4616	7833	18 37.6
6	1 34 27.55	3.51	+7 8 26.1	0 39.1	0.957 2449	7844	18 33.7
7	1 34 31.06	3.92	7 9 5.2	0 41.6	0.958 0293	7851	18 29.8
8	1 34 34.98	4.34	7 9 46.8	0 43.9	0.958 8144	7857	18 26.0
9	1 34 39.32	4.75	7 10 30.7	0 46.4	0.959 6001	7860	18 22.1
10	1 34 44.07	5.16	7 11 17.1	0 48.7	0.960 3861	7861	18 18.3
11	1 34 49.23	5.58	7 12 5.8	0 51.1	0.961 1722	7858	18 14.4
12	1 34 54.81	5.98	+7 12 56.9	0 53.4	0.961 9580	7852	18 10.6
13	1 35 0.79	6.40	7 13 50.3	0 55.7	0.962 7432	7845	18 6.8
14	1 35 7.19	6.80	7 14 46.0	0 58.1	0.963 5277	7835	18 2.9
15	1 35 13.99	7.21	7 15 44.1	1 0.3	0.964 3112	7822	17 59.1
16	1 35 21.20	7.60	7 16 44.4	1 2.5	0.965 0934	7807	17 55.3
17	1 35 28.80	8.01	7 17 46.9	1 4.8	0.965 8741	7791	17 51.5
18	1 35 36.81	8.41	+7 18 51.7	1 7.0	0.966 6532	7772	17 47.7
19	1 35 45.22	8.81	7 19 58.7	1 9.2	0.967 4304	7751	17 44.0
20	1 35 54.03	9.19	7 21 7.9	1 11.4	0.968 2055	7728	17 40.2
21	1 36 3.22	9.58	7 22 19.3	1 13.5	0.968 9783	7702	17 36.4
22	1 36 12.80	9.96	7 23 32.8	1 15.7	0.969 7485	7675	17 32.6
23	1 36 22.76	10.35	7 24 48.5	1 17.8	0.970 5160	7645	17 28.9
24	1 36 33.11	10.73	+7 26 6.3	1 19.8	0.971 2805	7615	17 25.1
25	1 36 43.84	11.10	7 27 26.1	1 21.9	0.972 0420	7581	17 21.3
26	1 36 54.94	11.48	7 28 48.0	1 24.0	0.972 8001	7547	17 17.6
27	1 37 6.42	11.85	7 30 12.0	1 25.9	0.973 5548	7511	17 13.9
28	1 37 18.27	12.21	7 31 37.9	1 28.0	0.974 3059	7472	17 10.1
29	1 37 30.48	12.59	7 33 5.9	1 29.9	0.975 0531	7432	17 6.4
30	1 37 43.07	12.95	+7 34 35.8	1 31.9	0.975 7963	7390	17 2.7
31	1 37 56.02	13.30	7 36 7.7	1 33.8	0.976 5353	7347	16 59.0
Febr. 1	1 38 9.32	13.67	7 37 41.5	1 35.6	0.977 2700	7302	16 55.3
2	1 38 22.99	14.03	7 39 17.1	1 37.6	0.978 0002	7254	16 51.6
3	1 38 37.02	14.37	7 40 54.7	1 39.5	0.978 7256	7206	16 47.9
4	1 38 51.39	14.73	7 42 34.2	1 41.2	0.979 4462	7156	16 44.2
5	1 39 6.12	15.07	+7 44 15.4	1 43.1	0.980 1618	7103	16 40.5
6	1 39 21.19	15.42	7 45 58.5	1 44.8	0.980 8721	7048	16 36.8
7	1 39 36.61	15.75	7 47 43.3	1 46.6	0.981 5769	6993	16 33.1
8	1 39 52.36	16.09	7 49 29.9	1 48.3	0.982 2762	6935	16 29.5
9	1 40 8.45	16.42	7 51 18.2	1 49.9	0.982 9697	6875	16 25.8
10	1 40 24.87		+7 53 8.1		0.983 6572		16 22.2

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Febr. 10	1 40 24.87	16.75	+7 53 8.1	1 51.6	0.983 6572	6814	16 22.2
11	1 40 41.62	17.07	7 54 59.7	1 53.3	0.984 3386	6752	16 18.5
12	1 40 58.69	17.39	7 56 53.0	1 54.8	0.985 0138	6687	16 14.9
13	1 41 16.08	17.71	7 58 47.8	1 56.4	0.985 6825	6622	16 11.2
14	1 41 33.79	18.02	8 0 44.2	1 58.0	0.986 3447	6555	16 7.6
15	1 41 51.81	18.32	8 2 42.2	1 59.4	0.987 0002	6487	16 4.0
16	1 42 10.13	18.62	+8 4 41.6	2 0.9	0.987 6489	6418	16 0.3
17	1 42 28.75	18.92	8 6 42.5	2 2.4	0.988 2907	6347	15 56.7
18	1 42 47.67	19.21	8 8 44.9	2 3.8	0.988 9254	6276	15 53.1
19	1 43 6.88	19.50	8 10 48.7	2 5.2	0.989 5530	6203	15 49.5
20	1 43 26.38	19.79	8 12 53.9	2 6.5	0.990 1733	6129	15 45.9
21	1 43 46.17	20.06	8 15 0.4	2 7.8	0.990 7862	6054	15 42.3
22	1 44 6.23	20.34	+8 17 8.2	2 9.1	0.991 3916	5979	15 38.7
23	1 44 26.57	20.62	8 19 17.3	2 10.4	0.991 9895	5902	15 35.1
24	1 44 47.19	20.89	8 21 27.7	2 11.6	0.992 5797	5824	15 31.5
25	1 45 8.08	21.15	8 23 39.3	2 12.8	0.993 1621	5745	15 27.9
26	1 45 29.23	21.41	8 25 52.1	2 14.1	0.993 7366	5666	15 24.4
27	1 45 50.64	21.66	8 28 6.2	2 15.2	0.994 3032	5586	15 20.8
28	1 46 12.30	21.92	+8 30 21.4	2 16.3	0.994 8618	5504	15 17.2
29	1 46 34.22	22.17	8 32 37.7	2 17.4	0.995 4122	5421	15 13.7
März 1	1 46 56.39	22.42	8 34 55.1	2 18.5	0.995 9543	5339	15 10.1
2	1 47 18.81	22.66	8 37 13.6	2 19.5	0.996 4882	5255	15 6.5
3	1 47 41.47	22.90	8 39 33.1	2 20.6	0.997 0137	5169	15 3.0
4	1 48 4.37	23.13	8 41 53.7	2 21.5	0.997 5306	5083	14 59.4
5	1 48 27.50	23.36	+8 44 15.2	2 22.5	0.998 0389	4995	14 55.9
6	1 48 50.86	23.60	8 46 37.7	2 23.4	0.998 5384	4907	14 52.3
7	1 49 14.46	23.81	8 49 1.1	2 24.3	0.999 0291	4817	14 48.8
8	1 49 38.27	24.03	8 51 25.4	2 25.2	0.999 5108	4727	14 45.3
9	1 50 2.30	24.25	8 53 50.6	2 26.0	0.999 9835	4636	14 41.7
10	1 50 26.55	24.45	8 56 16.6	2 26.9	1.000 4471	4544	14 38.2
11	1 50 51.00	24.65	+8 58 43.5	2 27.6	1.000 9015	4453	14 34.7
12	1 51 15.65	24.85	9 1 11.1	2 28.3	1.001 3468	4359	14 31.2
13	1 51 40.50	25.05	9 3 39.4	2 29.1	1.001 7827	4266	14 27.6
14	1 52 5.55	25.23	9 6 8.5	2 29.8	1.002 2093	4172	14 24.1
15	1 52 30.78	25.42	9 8 38.3	2 30.4	1.002 6265	4077	14 20.6
16	1 52 56.20	25.60	9 11 8.7	2 31.0	1.003 0342	3981	14 17.1
17	1 53 21.80	25.78	+9 13 39.7	2 31.6	1.003 4323	3885	14 13.6
18	1 53 47.58	25.94	9 16 11.3	2 32.2	1.003 8208	3789	14 10.1
19	1 54 13.52	26.11	9 18 43.5	2 32.7	1.004 1997	3692	14 6.6
20	1 54 39.63	26.27	9 21 16.2	2 33.2	1.004 5689	3595	14 3.1
21	1 55 5.90	26.43	9 23 49.4	2 33.7	1.004 9284	3498	13 59.6
22	1 55 32.33		+9 26 23.1		1.005 2782		13 56.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
März 22	1 55 32.33	26.59	+ 9 26 23.1	2 34.2	1.005 2782	3401	13 56.1
23	1 55 58.92	26.73	9 28 57.3	2 34.6	1.005 6183	3304	13 52.6
24	1 56 25.65	26.88	9 31 31.9	2 35.0	1.005 9487	3205	13 49.1
25	1 56 52.53	27.02	9 34 6.9	2 35.3	1.006 2692	3107	13 45.7
26	1 57 19.55	27.16	9 36 42.2	2 35.8	1.006 5799	3008	13 42.2
27	1 57 46.71	27.29	9 39 18.0	2 36.0	1.006 8807	2909	13 38.7
28	1 58 14.00	27.43	+ 9 41 54.0	2 36.4	1.007 1716	2809	13 35.2
29	1 58 41.43	27.55	9 44 30.4	2 36.7	1.007 4525	2709	13 31.7
30	1 59 8.98	27.68	9 47 7.1	2 36.9	1.007 7234	2609	13 28.3
31	1 59 36.66	27.80	9 49 44.0	2 37.1	1.007 9843	2509	13 24.8
April 1	2 0 4.46	27.91	9 52 21.1	2 37.3	1.008 2352	2407	13 21.3
2	2 0 32.37	28.02	9 54 58.4	2 37.5	1.008 4759	2306	13 17.9
3	2 1 0.39	28.13	+ 9 57 35.9	2 37.6	1.008 7065	2205	13 14.4
4	2 1 28.52	28.23	10 0 13.5	2 37.7	1.008 9270	2102	13 10.9
5	2 1 56.75	28.33	10 2 51.2	2 37.9	1.009 1372	1998	13 7.5
6	2 2 25.08	28.42	10 5 29.1	2 37.9	1.009 3370	1895	13 4.0
7	2 2 53.50	28.51	10 8 7.0	2 37.9	1.009 5265	1792	13 0.5
8	2 3 22.01	28.60	10 10 44.9	2 38.0	1.009 7057	1687	12 57.1
9	2 3 50.61	28.67	+10 13 22.9	2 37.9	1.009 8744	1584	12 53.6
10	2 4 19.28	28.75	10 16 0.8	2 37.9	1.010 0328	1481	12 50.2
11	2 4 48.03	28.82	10 18 38.7	2 37.9	1.010 1809	1377	12 46.7
12	2 5 16.85	28.89	10 21 16.6	2 37.7	1.010 3186	1274	12 43.3
13	2 5 45.74	28.95	10 23 54.3	2 37.6	1.010 4460	1170	12 39.8
14	2 6 14.69	29.00	10 26 31.9	2 37.5	1.010 5630	1066	12 36.4
15	2 6 43.69	29.05	+10 29 9.4	2 37.3	1.010 6696	961	12 32.9
16	2 7 12.74	29.10	10 31 46.7	2 37.1	1.010 7657	857	12 29.5
17	2 7 41.84	29.15	10 34 23.8	2 36.9	1.010 8514	754	12 26.0
18	2 8 10.99	29.19	10 37 0.7	2 36.7	1.010 9268	650	12 22.6
19	2 8 40.18	29.22	10 39 37.4	2 36.4	1.010 9918	548	12 19.1
20	2 9 9.40	29.25	10 42 13.8	2 36.2	1.011 0466	444	12 15.7
21	2 9 38.65	29.29	+10 44 50.0	2 35.8	1.011 0910	342	12 12.2
22	2 10 7.94	29.31	10 47 25.8	2 35.5	1.011 1252	239	12 8.8
23	2 10 37.25	29.32	10 50 1.3	2 35.1	1.011 1491	136	12 5.4
24	2 11 6.57	29.35	10 52 36.4	2 34.8	1.011 1627	34	12 1.9
25	2 11 35.92	29.36	10 55 11.2	2 34.4	1.011 1661	$\overline{70}$	11 58.4
26	2 12 5.28	29.37	10 57 45.6	2 34.0	1.011 1591	174	11 55.0
27	2 12 34.65	29.37	+11 0 19.6	2 33.5	1.011 1417	278	11 51.6
28	2 13 4.02	29.38	11 2 53.1	2 33.1	1.011 1139	381	11 48.1
29	2 13 33.40	29.37	11 5 26.2	2 32.7	1.011 0758	484	11 44.7
30	2 14 2.77	29.37	11 7 58.9	2 32.1	1.011 0274	587	11 41.2
Mai 1	2 14 32.14	29.37	11 10 31.0	2 31.6	1.010 9687	689	11 37.8
2	2 15 1.51		+11 13 2.6		1.010 8998		11 34.3

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension	Diff.	0ʰ Welt-Zeit: Scheinbare Deklination	Diff.	0ʰ Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Mai 2	2 15 1.51	29.34	+11 13 2.6	2 31.1	1.010 8998	792	11 34.3
3	2 15 30.85	29.33	11 15 33.7	2 30.5	1.010 8206	895	11 30.9
4	2 16 0.18	29.31	11 18 4.2	2 30.0	1.010 7311	998	11 27.4
5	2 16 29.49	29.28	11 20 34.2	2 29.3	1.010 6313	1101	11 24.0
6	2 16 58.77	29.24	11 23 3.5	2 28.7	1.010 5212	1204	11 20.6
7	2 17 28.01	29.21	11 25 32.2	2 28.1	1.010 4008	1306	11 17.1
8	2 17 57.22	29.17	+11 28 0.3	2 27.4	1.010 2702	1409	11 13.6
9	2 18 26.39	29.12	11 30 27.7	2 26.7	1.010 1293	1511	11 10.2
10	2 18 55.51	29.07	11 32 54.4	2 26.1	1.009 9782	1613	11 6.8
11	2 19 24.58	29.01	11 35 20.5	2 25.3	1.009 8169	1714	11 3.3
12	2 19 53.59	28.96	11 37 45.8	2 24.5	1.009 6455	1815	10 59.9
13	2 20 22.55	28.89	11 40 10.3	2 23.7	1.009 4640	1914	10 56.4
14	2 20 51.44	28.83	+11 42 34.0	2 22.9	1.009 2726	2015	10 53.0
15	2 21 20.27	28.75	11 44 56.9	2 22.1	1.009 0711	2114	10 49.5
16	2 21 49.02	28.68	11 47 19.0	2 21.3	1.008 8597	2213	10 46.0
17	2 22 17.70	28.60	11 49 40.3	2 20.5	1.008 6384	2312	10 42.6
18	2 22 46.30	28.52	11 52 0.8	2 19.6	1.008 4072	2410	10 39.1
19	2 23 14.82	28.43	11 54 20.4	2 18.8	1.008 1662	2508	10 35.7
20	2 23 43.25	28.34	+11 56 39.2	2 17.8	1.007 9154	2606	10 32.2
21	2 24 11.59	28.24	11 58 57.0	2 16.9	1.007 6548	2702	10 28.7
22	2 24 39.83	28.14	12 1 13.9	2 16.0	1.007 3846	2799	10 25.3
23	2 25 7.97	28.05	12 3 29.9	2 15.0	1.007 1047	2896	10 21.8
24	2 25 36.02	27.94	12 5 44.9	2 14.1	1.006 8151	2992	10 18.3
25	2 26 3.96	27.83	12 7 59.0	2 13.1	1.006 5159	3087	10 14.9
26	2 26 31.79	27.72	+12 10 12.1	2 12.1	1.006 2072	3183	10 11.4
27	2 26 59.51	27.60	12 12 24.2	2 11.1	1.005 8889	3277	10 7.9
28	2 27 27.11	27.47	12 14 35.3	2 10.1	1.005 5612	3373	10 4.5
29	2 27 54.58	27.36	12 16 45.4	2 9.0	1.005 2239	3468	10 1.0
30	2 28 21.94	27.22	12 18 54.4	2 8.0	1.004 8771	3562	9 57.5
31	2 28 49.16	27.09	12 21 2.4	2 6.9	1.004 5209	3655	9 54.0
Juni 1	2 29 16.25	26.95	+12 23 9.3	2 5.7	1.004 1554	3748	9 50.5
2	2 29 43.20	26.80	12 25 15.0	2 4.7	1.003 7806	3841	9 47.0
3	2 30 10.00	26.65	12 27 19.7	2 3.5	1.003 3965	3933	9 43.6
4	2 30 36.65	26.51	12 29 23.2	2 2.4	1.003 0032	4024	9 40.1
5	2 31 3.16	26.34	12 31 25.6	2 1.3	1.002 6008	4115	9 36.6
6	2 31 29.50	26.19	12 33 26.9	2 0.0	1.002 1893	4206	9 33.1
7	2 31 55.69	26.02	+12 35 26.9	1 58.8	1.001 7687	4296	9 29.6
8	2 32 21.71	25.85	12 37 25.7	1 57.7	1.001 3391	4384	9 26.1
9	2 32 47.56	25.68	12 39 23.4	1 56.3	1.000 9007	4473	9 22.6
10	2 33 13.24	25.49	12 41 19.7	1 55.1	1.000 4534	4561	9 19.1
11	2 33 38.73	25.31	12 43 14.8	1 53.9	0.999 9973	4647	9 15.6
12	2 34 4.04		+12 45 8.7		0.999 5326		9 12.0

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		0h Welt-Zeit log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Juni 12	2 34 4.04	25.12	+12 45 8.7	1 52.6	0.999 5326	4733	9 12.0
13	2 34 29.16	24.93	12 47 1.3	1 51.3	0.999 0593	4817	9 8.5
14	2 34 54.09	24.73	12 48 52.6	1 50.0	0.998 5776	4901	9 5.0
15	2 35 18.82	24.54	12 50 42.6	1 48.6	0.998 0875	4984	9 1.5
16	2 35 43.36	24.33	12 52 31.2	1 47.3	0.997 5891	5066	8 57.9
17	2 36 7.69	24.13	12 54 18.5	1 46.0	0.997 0825	5148	8 54.4
18	2 36 31.82	23.91	+12 56 4.5	1 44.7	0.996 5677	5228	8 50.9
19	2 36 55.73	23.70	12 57 49.2	1 43.3	0.996 0449	5309	8 47.3
20	2 37 19.43	23.48	12 59 32.5	1 41.9	0.995 5140	5388	8 43.8
21	2 37 42.91	23.26	13 1 14.4	1 40.5	0.994 9752	5467	8 40.3
22	2 38 6.17	23.04	13 2 54.9	1 39.1	0.994 4285	5545	8 36.7
23	2 38 29.21	22.81	13 4 34.0	1 37.7	0.993 8740	5623	8 33.2
24	2 38 52.02	22.58	+13 6 11.7	1 36.2	0.993 3117	5698	8 29.6
25	2 39 14.60	22.34	13 7 47.9	1 34.8	0.992 7419	5774	8 26.1
26	2 39 36.94	22.10	13 9 22.7	1 33.4	0.992 1645	5849	8 22.5
27	2 39 59.04	21.85	13 10 56.1	1 31.9	0.991 5796	5923	8 18.9
28	2 40 20.89	21.60	13 12 28.0	1 30.4	0.990 9873	5997	8 15.4
29	2 40 42.49	21.34	13 13 58.4	1 28.9	0.990 3876	6069	8 11.8
30	2 41 3.83	21.08	+13 15 27.3	1 27.4	0.989 7807	6140	8 8.2
Juli 1	2 41 24.91	20.82	13 16 54.7	1 25.9	0.989 1667	6210	8 4.6
2	2 41 45.73	20.56	13 18 20.6	1 24.3	0.988 5457	6280	8 1.0
3	2 42 6.29	20.28	13 19 44.9	1 22.8	0.987 9177	6347	7 57.4
4	2 42 26.57	20.00	13 21 7.7	1 21.2	0.987 2830	6414	7 53.8
5	2 42 46.57	19.72	13 22 28.9	1 19.6	0.986 6416	6479	7 50.2
6	2 43 6.29	19.43	+13 23 48.5	1 18.1	0.985 9937	6543	7 46.6
7	2 43 25.72	19.14	13 25 6.6	1 16.4	0.985 3394	6607	7 43.0
8	2 43 44.86	18.85	13 26 23.0	1 14.9	0.984 6787	6670	7 39.4
9	2 44 3.71	18.55	13 27 37.9	1 13.3	0.984 0117	6729	7 35.8
10	2 44 22.26	18.24	13 28 51.2	1 11.6	0.983 3388	6788	7 32.2
11	2 44 40.50	17.94	13 30 2.8	1 10.0	0.982 6600	6845	7 28.5
12	2 44 58.44	17.63	+13 31 12.8	1 8.3	0.981 9755	6901	7 24.9
13	2 45 16.07	17.32	13 32 21.1	1 6.6	0.981 2854	6956	7 21.3
14	2 45 33.39	17.01	13 33 27.7	1 5.0	0.980 5898	7009	7 17.6
15	2 45 50.40	16.68	13 34 32.7	1 3.4	0.979 8889	7061	7 14.0
16	2 46 7.08	16.37	13 35 36.1	1 1.6	0.979 1828	7112	7 10.3
17	2 46 23.45	16.04	13 36 37.7	1 0.0	0.978 4716	7161	7 6.6
18	2 46 39.49	15.71	+13 37 37.7	0 58.3	0.977 7555	7209	7 3.0
19	2 46 55.20	15.38	13 38 36.0	0 56.6	0.977 0346	7255	6 59.3
20	2 47 10.58	15.05	13 39 32.6	0 54.9	0.976 3091	7301	6 55.6
21	2 47 25.63	14.70	13 40 27.5	0 53.1	0.975 5790	7345	6 51.9
22	2 47 40.33	14.37	13 41 20.6	0 51.4	0.974 8445	7388	6 48.2
23	2 47 54.70		+13 42 12.0		0.974 1057		6 44.5

Saturn 1940

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	″			h m
Juli 23	2 47 54.70	14.01	+13 42 12.0	49.7	0.974 1057	7430	6 44.5
24	2 48 8.71	13.67	13 43 1.7	48.0	0.973 3627	7470	6 40.8
25	2 48 22.38	13.32	13 43 49.7	46.2	0.972 6157	7509	6 37.1
26	2 48 35.70	12.96	13 44 35.9	44.4	0.971 8648	7545	6 33.4
27	2 48 48.66	12.59	13 45 20.3	42.7	0.971 1103	7580	6 29.7
28	2 49 1.25	12.23	13 46 3.0	40.9	0.970 3523	7613	6 26.0
29	2 49 13.48	11.87	+13 46 43.9	39.2	0.969 5910	7645	6 22.3
30	2 49 25.35	11.49	13 47 23.1	37.3	0.968 8265	7675	6 18.5
31	2 49 36.84	11.12	13 48 0.4	35.5	0.968 0590	7703	6 14.8
Aug. 1	2 49 47.96	10.74	13 48 35.9	33.8	0.967 2887	7729	6 11.0
2	2 49 58.70	10.36	13 49 9.7	31.9	0.966 5158	7754	6 7.3
3	2 50 9.06	9.98	13 49 41.6	30.1	0.965 7404	7775	6 3.5
4	2 50 19.04	9.59	+13 50 11.7	28.3	0.964 9629	7796	5 59.7
5	2 50 28.63	9.19	13 50 40.0	26.5	0.964 1833	7814	5 56.0
6	2 50 37.82	8.81	13 51 6.5	24.6	0.963 4019	7831	5 52.2
7	2 50 46.63	8.41	13 51 31.1	22.8	0.962 6188	7844	5 48.4
8	2 50 55.04	8.01	13 51 53.9	21.0	0.961 8344	7855	5 44.6
9	2 51 3.05	7.61	13 52 14.9	19.1	0.961 0489	7865	5 40.8
10	2 51 10.66	7.21	+13 52 34.0	17.3	0.960 2624	7873	5 37.0
11	2 51 17.87	6.81	13 52 51.3	15.5	0.959 4751	7878	5 33.2
12	2 51 24.68	6.41	13 53 6.8	13.6	0.958 6873	7882	5 29.4
13	2 51 31.09	6.01	13 53 20.4	11.8	0.957 8991	7882	5 25.5
14	2 51 37.10	5.60	13 53 32.2	9.9	0.957 1109	7882	5 21.7
15	2 51 42.70	5.20	13 53 42.1	8.1	0.956 3227	7879	5 17.9
16	2 51 47.90	4.78	+13 53 50.2	6.3	0.955 5348	7874	5 14.0
17	2 51 52.68	4.37	13 53 56.5	4.4	0.954 7474	7868	5 10.2
18	2 51 57.05	3.96	13 54 0.9	2.6	0.953 9606	7858	5 6.3
19	2 52 1.01	3.55	13 54 3.5	0.8	0.953 1748	7848	5 2.4
20	2 52 4.56	3.14	13 54 4.3	1.1	0.952 3900	7835	4 58.6
21	2 52 7.70	2.72	13 54 3.2	2.8	0.951 6065	7819	4 54.7
22	2 52 10.42	2.30	+13 54 0.4	4.7	0.950 8246	7801	4 50.8
23	2 52 12.72	1.89	13 53 55.7	6.5	0.950 0445	7781	4 46.9
24	2 52 14.61	1.46	13 53 49.2	8.4	0.949 2664	7758	4 43.0
25	2 52 16.07	1.04	13 53 40.8	10.2	0.948 4906	7733	4 39.1
26	2 52 17.11	0.62	13 53 30.6	12.0	0.947 7173	7706	4 35.2
27	2 52 17.73	0.20	13 53 18.6	13.9	0.946 9467	7676	4 31.3
28	2 52 17.93	0.22	+13 53 4.7	15.7	0.946 1791	7644	4 27.3
29	2 52 17.71	0.64	13 52 49.0	17.4	0.945 4147	7609	4 23.4
30	2 52 17.07	1.06	13 52 31.6	19.3	0.944 6538	7572	4 19.5
31	2 52 16.01	1.49	13 52 12.3	21.1	0.943 8966	7531	4 15.5
Sept. 1	2 52 14.52	1.91	13 51 51.2	22.9	0.943 1435	7488	4 11.5
2	2 52 12.61		+13 51 28.3		0.942 3947		4 7.6

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Sept. 2	2 52 12.61	2.33	+13 51 28.3	0 24.6	0.942 3947	7442	4 7.6
3	2 52 10.28	2.76	13 51 3.7	0 26.5	0.941 6505	7394	4 3.6
4	2 52 7.52	3.17	13 50 37.2	0 28.2	0.940 9111	7342	3 59.6
5	2 52 4.35	3.58	13 50 9.0	0 29.9	0.940 1769	7288	3 55.6
6	2 52 0.77	4.00	13 49 39.1	0 31.6	0.939 4481	7231	3 51.6
7	2 51 56.77	4.41	13 49 7.5	0 33.4	0.938 7250	7172	3 47.6
8	2 51 52.36	4.82	+13 48 34.1	0 35.1	0.938 0078	7109	3 43.6
9	2 51 47.54	5.23	13 47 59.0	0 36.8	0.937 2969	7045	3 39.6
10	2 51 42.31	5.63	13 47 22.2	0 38.5	0.936 5924	6978	3 35.6
11	2 51 36.68	6.03	13 46 43.7	0 40.1	0.935 8946	6908	3 31.6
12	2 51 30.65	6.44	13 46 3.6	0 41.7	0.935 2038	6836	3 27.5
13	2 51 24.21	6.82	13 45 21.9	0 43.4	0.934 5202	6762	3 23.5
14	2 51 17.39	7.22	+13 44 38.5	0 45.0	0.933 8440	6685	3 19.4
15	2 51 10.17	7.61	13 43 53.5	0 46.6	0.933 1755	6606	3 15.4
16	2 51 2.56	8.00	13 43 6.9	0 48.2	0.932 5149	6524	3 11.4
17	2 50 54.56	8.38	13 42 18.7	0 49.8	0.931 8625	6439	3 7.3
18	2 50 46.18	8.76	13 41 28.9	0 51.3	0.931 2186	6353	3 3.2
19	2 50 37.42	9.13	13 40 37.6	0 52.8	0.930 5833	6262	2 59.1
20	2 50 28.29	9.51	+13 39 44.8	0 54.3	0.929 9571	6171	2 55.0
21	2 50 18.78	9.87	13 38 50.5	0 55.8	0.929 3400	6076	2 50.9
22	2 50 8.91	10.25	13 37 54.7	0 57.2	0.928 7324	5978	2 46.9
23	2 49 58.66	10.60	13 36 57.5	0 58.7	0.928 1346	5879	2 42.8
24	2 49 48.06	10.96	13 35 58.8	1 0.0	0.927 5467	5776	2 38.6
25	2 49 37.10	11.31	13 34 58.8	1 1.5	0.926 9691	5672	2 34.5
26	2 49 25.79	11.65	+13 33 57.3	1 2.9	0.926 4019	5565	2 30.4
27	2 49 14.14	12.00	13 32 54.4	1 4.2	0.925 8454	5454	2 26.3
28	2 49 2.14	12.34	13 31 50.2	1 5.5	0.925 3000	5341	2 22.2
29	2 48 49.80	12.66	13 30 44.7	1 6.7	0.924 7659	5226	2 18.0
30	2 48 37.14	12.99	13 29 38.0	1 8.1	0.924 2433	5107	2 13.9
Okt. 1	2 48 24.15	13.31	13 28 29.9	1 9.2	0.923 7326	4986	2 9.7
2	2 48 10.84	13.61	+13 27 20.7	1 10.5	0.923 2340	4863	2 5.6
3	2 47 57.23	13.91	13 26 10.2	1 11.5	0.922 7477	4738	2 1.4
4	2 47 43.32	14.21	13 24 58.7	1 12.7	0.922 2739	4610	1 57.3
5	2 47 29.11	14.49	13 23 46.0	1 13.8	0.921 8129	4481	1 53.1
6	2 47 14.62	14.76	13 22 32.2	1 14.8	0.921 3648	4349	1 48.9
7	2 46 59.86	15.04	13 21 17.4	1 15.8	0.920 9299	4215	1 44.7
8	2 46 44.82	15.30	+13 20 1.6	1 16.8	0.920 5084	4079	1 40.6
9	2 46 29.52	15.55	13 18 44.8	1 17.7	0.920 1005	3941	1 36.4
10	2 46 13.97	15.80	13 17 27.1	1 18.6	0.919 7064	3803	1 32.2
11	2 45 58.17	16.04	13 16 8.5	1 19.4	0.919 3261	3661	1 28.0
12	2 45 42.13	16.26	13 14 49.1	1 20.3	0.918 9600	3518	1 23.8
13	2 45 25.87		+13 13 28.8		0.918 6082		1 19.6

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	s	° ′ ″	′ ″			h m
Okt. 13	2 45 25.87	16.48	+13 13 28.8	1 21.0	0.918 6082	3374	1 19.6
14	2 45 9.39	16.69	13 12 7.8	1 21.8	0.918 2708	3229	1 15.4
15	2 44 52.70	16.90	13 10 46.0	1 22.4	0.917 9479	3081	1 11.2
16	2 44 35.80	17.09	13 9 23.6	1 23.1	0.917 6398	2933	1 7.0
17	2 44 18.71	17.28	13 8 0.5	1 23.7	0.917 3465	2782	1 2.7
18	2 44 1.43	17.45	13 6 36.8	1 24.3	0.917 0683	2630	0 58.5
19	2 43 43.98	17.62	+13 5 12.5	1 24.8	0.916 8053	2478	0 54.3
20	2 43 26.36	17.78	13 3 47.7	1 25.2	0.916 5575	2323	0 50.1
21	2 43 8.58	17.93	13 2 22.5	1 25.7	0.916 3252	2167	0 45.9
22	2 42 50.65	18.07	13 0 56.8	1 26.1	0.916 1085	2009	0 41.6
23	2 42 32.58	18.21	12 59 30.7	1 26.5	0.915 9076	1852	0 37.4
24	2 42 14.37	18.32	12 58 4.2	1 26.7	0.915 7224	1691	0 33.2
25	2 41 56.05	18.43	+12 56 37.5	1 27.0	0.915 5533	1531	0 28.9
26	2 41 37.62	18.53	12 55 10.5	1 27.2	0.915 4002	1369	0 24.7
27	2 41 19.09	18.62	12 53 43.3	1 27.3	0.915 2633	1206	0 20.5
28	2 41 0.47	18.70	12 52 16.0	1 27.4	0.915 1427	1042	0 16.2
29	2 40 41.77	18.77	12 50 48.6	1 27.6	0.915 0385	877	0 12.0
30	2 40 23.00	18.83	12 49 21.0	1 27.5	0.914 9508	713	0 7.7
31	2 40 4.17	18.87	+12 47 53.5	1 27.4	0.914 8795	547	{0 3.5 / 23 59.2}
Nov. 1	2 39 45.30	18.90	12 46 26.1	1 27.4	0.914 8248	381	23 55.0
2	2 39 26.40	18.93	12 44 58.7	1 27.2	0.914 7867	215	23 50.7
3	2 39 7.47	18.94	12 43 31.5	1 27.0	0.914 7652	49	23 46.5
4	2 38 48.53	18.94	12 42 4.5	1 26.7	0.914 7603	117	23 42.2
5	2 38 29.59	18.93	12 40 37.8	1 26.4	0.914 7720	283	23 38.0
6	2 38 10.66	18.90	+12 39 11.4	1 26.0	0.914 8003	449	23 33.8
7	2 37 51.76	18.88	12 37 45.4	1 25.7	0.914 8452	615	23 29.5
8	2 37 32.88	18.83	12 36 19.7	1 25.1	0.914 9067	779	23 25.3
9	2 37 14.05	18.78	12 34 54.6	1 24.7	0.914 9846	945	23 21.0
10	2 36 55.27	18.72	12 33 29.9	1 24.1	0.915 0791	1108	23 16.8
11	2 36 36.55	18.64	12 32 5.8	1 23.5	0.915 1899	1272	23 12.5
12	2 36 17.91	18.56	+12 30 42.3	1 22.8	0.915 3171	1434	23 8.3
13	2 35 59.35	18.46	12 29 19.5	1 22.1	0.915 4605	1596	23 4.1
14	2 35 40.89	18.36	12 27 57.4	1 21.4	0.915 6201	1758	22 59.8
15	2 35 22.53	18.25	12 26 36.0	1 20.5	0.915 7959	1917	22 55.6
16	2 35 4.28	18.13	12 25 15.5	1 19.7	0.915 9876	2078	22 51.4
17	2 34 46.15	17.99	12 23 55.8	1 18.8	0.916 1954	2236	22 47.1
18	2 34 28.16	17.85	+12 22 37.0	1 17.9	0.916 4190	2393	22 42.9
19	2 34 10.31	17.69	12 21 19.1	1 16.9	0.916 6583	2550	22 38.7
20	2 33 52.62	17.54	12 20 2.2	1 15.8	0.916 9133	2706	22 34.5
21	2 33 35.08	17.36	12 18 46.4	1 14.7	0.917 1839	2860	22 30.2
22	2 33 17.72	17.18	12 17 31.7	1 13.7	0.917 4699	3014	22 26.0
23	2 33 0.54		+12 16 18.0		0.917 7713		22 21.8

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	″			h m
Nov. 23	2 33 0.54	17.00	+12 16 18.0	72.4	0.917 7713	3166	22 21.8
24	2 32 43.54	16.79	12 15 5.6	71.3	0.918 0879	3316	22 17.6
25	2 32 26.75	16.58	12 13 54.3	69.9	0.918 4195	3466	22 13.4
26	2 32 10.17	16.37	12 12 44.4	68.7	0.918 7661	3614	22 9.2
27	2 31 53.80	16.13	12 11 35.7	67.3	0.919 1275	3760	22 5.0
28	2 31 37.67	15.90	12 10 28.4	66.0	0.919 5035	3904	22 0.8
29	2 31 21.77	15.64	+12 9 22.4	64.5	0.919 8939	4047	21 56.6
30	2 31 6.13	15.39	12 8 17.9	63.0	0.920 2986	4188	21 52.4
Dez. 1	2 30 50.74	15.12	12 7 14.9	61.4	0.920 7174	4325	21 48.2
2	2 30 35.62	14.85	12 6 13.5	59.9	0.921 1499	4461	21 44.1
3	2 30 20.77	14.56	12 5 13.6	58.3	0.921 5960	4595	21 39.9
4	2 30 6.21	14.28	12 4 15.3	56.7	0.922 0555	4726	21 35.7
5	2 29 51.93	13.97	+12 3 18.6	55.0	0.922 5281	4855	21 31.6
6	2 29 37.96	13.67	12 2 23.6	53.3	0.923 0136	4981	21 27.4
7	2 29 24.29	13.35	12 1 30.3	51.6	0.923 5117	5106	21 23.2
8	2 29 10.94	13.04	12 0 38.7	49.8	0.924 0223	5226	21 19.1
9	2 28 57.90	12.71	11 59 48.9	48.1	0.924 5449	5346	21 14.9
10	2 28 45.19	12.38	11 59 0.8	46.2	0.925 0795	5463	21 10.8
11	2 28 32.81	12.04	+11 58 14.6	44.3	0.925 6258	5576	21 6.7
12	2 28 20.77	11.70	11 57 30.3	42.4	0.926 1834	5688	21 2.6
13	2 28 9.07	11.36	11 56 47.9	40.6	0.926 7522	5797	20 58.4
14	2 27 57.71	10.99	11 56 7.3	38.6	0.927 3319	5904	20 54.3
15	2 27 46.72	10.64	11 55 28.7	36.6	0.927 9223	6008	20 50.2
16	2 27 36.08	10.27	11 54 52.1	34.8	0.928 5231	6109	20 46.1
17	2 27 25.81	9.91	+11 54 17.3	32.7	0.929 1340	6208	20 42.0
18	2 27 15.90	9.53	11 53 44.6	30.7	0.929 7548	6305	20 37.9
19	2 27 6.37	9.15	11 53 13.9	28.7	0.930 3853	6399	20 33.8
20	2 26 57.22	8.77	11 52 45.2	26.6	0.931 0252	6490	20 29.8
21	2 26 48.45	8.39	11 52 18.6	24.6	0.931 6742	6578	20 25.7
22	2 26 40.06	7.99	11 51 54.0	22.5	0.932 3320	6665	20 21.6
23	2 26 32.07	7.59	+11 51 31.5	20.3	0.932 9985	6749	20 17.6
24	2 26 24.48	7.19	11 51 11.2	18.2	0.933 6734	6829	20 13.5
25	2 26 17.29	6.78	11 50 53.0	16.2	0.934 3563	6907	20 9.5
26	2 26 10.51	6.38	11 50 36.8	13.9	0.935 0470	6982	20 5.4
27	2 26 4.13	5.96	11 50 22.9	11.8	0.935 7452	7055	20 1.4
28	2 25 58.17	5.54	11 50 11.1	9.6	0.936 4507	7124	19 57.4
29	2 25 52.63	5.13	+11 50 1.5	7.5	0.937 1631	7191	19 53.3
30	2 25 47.50	4.70	11 49 54.0	5.3	0.937 8822	7253	19 49.3
31	2 25 42.80	4.28	11 49 48.7	3.0	0.938 6075	7314	19 45.3
32	2 25 38.52		+11 49 45.7		0.939 3389		19 41.3

Uranus 1940

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Jan. 0	3 3 39.94	20.15	+16 58 24.2	1 17.8	1.277 9806	1 2355	20 26.1
4	3 19.79	17.16	57 6.4	1 5.3	279 2161	1 2984	20 10.1
8	3 2.63	14.03	56 1.1	0 52.3	280 5145	1 3532	19 54.1
12	2 48.60	10.81	55 8.8	0 39.0	281 8677	1 4001	19 38.2
16	2 37.79	7.53	54 29.8	0 25.3	283 2678	1 4387	19 22.2
20	3 2 30.26	4.18	+16 54 4.5	0 11.2	1.284 7065	1 4692	19 6.4
24	2 26.08	0.82	53 53.3	0 2.7	286 1757	1 4928	18 50.6
28	2 25.26	2.57	53 56.0	0 16.8	287 6685	1 5082	18 34.9
Febr. 1	2 27.83	5.96	54 12.8	0 31.0	289 1767	1 5167	18 19.2
5	2 33.79	9.35	54 43.8	0 45.0	290 6934	1 5171	18 3.6
9	3 2 43.14	12.72	+16 55 28.8	0 58.9	1.292 2105	1 5099	17 48.0
13	2 55.86	16.03	56 27.7	1 12.4	293 7204	1 4951	17 32.5
17	3 11.89	19.25	57 40.1	1 25.6	295 2155	1 4733	17 17.1
21	3 31.14	22.40	+16 59 5.7	1 38.4	296 6888	1 4449	17 1.7
25	3 53.54	25.45	+17 0 44.1	1 50.6	298 1337	1 4113	16 46.3
29	3 4 18.99	28.41	+17 2 34.7	2 2.4	1.299 5450	1 3713	16 31.0
März 4	4 47.40	31.28	4 37.1	2 13.8	300 9163	1 3256	16 15.8
8	5 18.68	34.04	6 50.9	2 24.4	302 2419	1 2738	16 0.6
12	5 52.72	36.64	9 15.3	2 34.5	303 5157	1 2172	15 45.4
16	6 29.36	39.09	11 49.8	2 43.8	304 7329	1 1554	15 30.3
20	3 7 8.45	41.40	+17 14 33.6	2 52.3	1.305 8883	1 0899	15 15.2
24	7 49.85	43.55	17 25.9	3 0.3	306 9782	1 0207	15 0.2
28	8 33.40	45.57	20 26.2	3 7.4	307 9989	9486	14 45.2
April 1	9 18.97	47.44	23 33.6	3 13.9	308 9475	8725	14 30.2
5	10 6.41	49.14	26 47.5	3 19.5	309 8200	7931	14 15.3
9	3 10 55.55	50.67	+17 30 7.0	3 24.6	1.310 6131	7110	14 0.4
13	11 46.22	52.02	33 31.6	3 28.7	311 3241	6263	13 45.5
17	12 38.24	53.19	37 0.3	3 32.1	311 9504	5407	13 30.7
21	13 31.43	54.17	40 32.4	3 34.7	312 4911	4537	13 15.8
25	14 25.60	55.03	44 7.1	3 36.7	312 9448	3655	13 1.0
29	3 15 20.63	55.69	+17 47 43.8	3 37.9	1.313 3103	2757	12 46.2
Mai 3	16 16.32	56.19	51 21.7	3 38.4	313 5860	1851	12 31.4
7	17 12.51	56.52	55 0.1	3 38.2	313 7711	940	12 16.6
11	18 9.03	56.63	+17 58 38.3	3 37.3	313 8651	27	12 1.8
15	19 5.66	56.56	+18 2 15.6	3 35.8	313 8678	880	11 47.0
19	3 20 2.22	56.35	+18 5 51.4	3 33.4	1.313 7798	1779	11 32.2
23	20 58.57	55.96	9 24.8	3 30.6	313 6019	2667	11 17.4
27	21 54.53	55.40	12 55.4	3 27.2	313 3352	3555	11 2.6
31	22 49.93	54.68	16 22.6	3 23.2	312 9797	4428	10 47.8
Juni 4	23 44.61	53.79	19 45.8	3 18.5	312 5369	5289	10 33.0
8	3 24 38.40	52.68	+18 23 4.3	3 13.4	1.312 0080	6136	10 18.1
12	25 31.08	51.45	26 17.7	3 7.6	311 3944	6948	10 3.3
16	26 22.53	50.02	29 25.3	3 1.3	310 6996	7740	9 48.4
20	27 12.55	48.48	32 26.6	2 54.6	309 9256	8505	9 33.5
24	28 1.03	46.77	35 21.2	2 47.5	309 0751	9245	9 18.6
28	28 47.80	44.91	38 8.7	2 39.8	308 1506	9959	9 3.6
Juli 2	3 29 32.71		+18 40 48.5		1.307 1547		8 48.6

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1940	h m s	s	° ′ ″	′ ″			h m
Juli 2	3 29 32.71	42.88	+18 40 48.5	2 31.9	1.307 1547	1 0637	8 48.6
6	30 15.59	40.71	43 20.4	2 23.3	306 0910	1 1278	8 33.6
10	30 56.30	38.39	45 43.7	2 14.5	304 9632	1 1877	8 18.6
14	31 34.69	35.93	47 58.2	2 5.2	303 7755	1 2424	8 3.5
18	32 10.62	33.39	50 3.4	1 55.7	302 5331	1 2935	7 48.3
22	3 32 44.01	30.71	+18 51 59.1	1 45.9	1.301 2396	1 3397	7 33.1
26	33 14.72	27.92	53 45.0	1 35.8	299 8999	1 3814	7 17.9
30	33 42.64	25.03	55 20.8	1 25.3	298 5185	1 4177	7 2.7
Aug. 3	34 7.67	22.00	56 46.1	1 14.7	297 1008	1 4486	6 47.4
7	34 29.67	18.90	58 0.8	1 3.9	295 6522	1 4727	6 32.0
11	3 34 48.57	15.75	+18 59 4.7	0 52.8	1.294 1795	1 4906	6 16.6
15	35 4.32	12.54	+18 59 57.5	0 41.7	292 6889	1 5023	6 1.1
19	35 16.86	9.30	+19 0 39.2	0 30.5	291 1866	1 5082	5 45.6
23	35 26.16	6.00	1 9.7	0 19.2	289 6784	1 5076	5 30.0
27	35 32.16	2.67	1 28.9	0 7.9	288 1708	1 5001	5 14.4
31	3 35 34.83	0.67	+19 1 36.8	0 3.6	1.286 6707	1 4852	4 58.7
Sept. 4	35 34.16	4.00	1 33.2	0 14.9	285 1855	1 4626	4 42.9
8	35 30.16	7.28	1 18.3	0 26.1	283 7229	1 4328	4 27.2
12	35 22.88	10.51	0 52.2	0 37.0	282 2901	1 3958	4 11.3
16	35 12.37	13.66	+19 0 15.2	0 47.9	280 8943	1 3520	3 55.4
20	3 34 58.71	16.74	+18 59 27.3	0 58.4	1.279 5423	1 3012	3 39.4
24	34 41.97	19.72	58 28.9	1 8.6	278 2411	1 2436	3 23.4
28	34 22.25	22.61	57 20.3	1 18.7	276 9975	1 1784	3 7.4
Okt. 2	33 59.64	25.34	56 1.6	1 28.0	275 8191	1 1061	2 51.3
6	33 34.30	27.90	54 33.6	1 37.1	274 7130	1 0268	2 35.1
10	3 33 6.40	30.24	+18 52 56.5	1 45.3	1.273 6862	9420	2 18.9
14	32 36.16	32.42	51 11.2	1 53.1	272 7442	8519	2 2.7
18	32 3.74	34.37	49 18.1	2 0.2	271 8923	7567	1 46.4
22	31 29.37	36.11	47 17.9	2 6.4	271 1356	6563	1 30.1
26	30 53.26	37.62	45 11.5	2 12.0	270 4793	5516	1 13.8
30	3 30 15.64	38.86	+18 42 59.5	2 16.7	1.269 9277	4422	0 57.5
Nov. 3	29 36.78	39.80	40 42.8	2 20.4	269 4855	3301	0 41.1
7	28 56.98	40.46	38 22.4	2 23.1	269 1554	2160	0 24.7
11	28 16.52	40.86	35 59.3	2 25.0	268 9394	1011	0 8.3
15	27 35.66	40.96	33 34.3	2 25.5	268 8383	152	23 47.8
19	3 26 54.70	40.79	+18 31 8.8	2 25.3	1.268 8535	1315	23 31.4
23	26 13.91	40.34	28 43.5	2 24.0	268 9850	2474	23 15.0
27	25 33.57	39.58	26 19.5	2 21.5	269 2324	3627	22 58.6
Dez. 1	24 53.99	38.53	23 58.0	2 18.1	269 5951	4753	22 42.2
5	24 15.46	37.20	21 39.9	2 13.5	270 0704	5848	22 25.9
9	3 23 38.26	35.61	+18 19 26.4	2 7.7	1.270 6552	6904	22 9.5
13	23 2.65	33.78	17 18.7	2 1.4	271 3456	7914	21 53.2
17	22 28.87	31.74	15 17.3	1 53.8	272 1370	8876	21 36.9
21	21 57.13	29.46	13 23.5	1 45.4	273 0246	9792	21 20.7
25	21 27.67	26.97	11 38.1	1 36.3	274 0038	1 0650	21 4.5
29	21 0.70	24.28	10 1.8	1 26.4	275 0688	1 1441	20 48.3
33	3 20 36.42		+18 8 35.4		1.276 2129		20 32.2

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940	h m s	s	° ′ ″	′ ″			h m
Jan. 0	11 45 28.04	1.91	+2 53 35.9	0 25.3	1.476 9880	9726	5 10.5
4	45 26.13	3.92	54 1.2	0 38.0	476 0154	9541	4 54.8
8	45 22.21	5.90	54 39.2	0 50.7	475 0613	9307	4 39.0
12	45 16.31	7.82	55 29.9	1 2.9	474 1306	9021	4 23.1
16	45 8.49	9.68	56 32.8	1 14.5	473 2285	8683	4 7.3
20	11 44 58.81	11.47	+2 57 47.3	1 25.7	1.472 3602	8302	3 51.4
24	44 47.34	13.18	+2 59 13.0	1 36.4	471 5300	7879	3 35.5
28	44 34.16	14.80	+3 0 49.4	1 46.4	470 7421	7415	3 19.5
Febr. 1	44 19.36	16.34	2 35.8	1 55.8	470 0006	6909	3 3.6
5	44 3.02	17.77	4 31.6	2 4.4	469 3097	6364	2 47.6
9	11 43 45.25	19.07	+3 6 36.0	2 12.2	1.468 6733	5776	2 31.5
13	43 26.18	20.25	8 48.2	2 19.1	468 0957	5160	2 15.5
17	43 5.93	21.28	11 7.3	2 25.1	467 5797	4520	1 59.4
21	42 44.65	22.17	13 32.4	2 30.2	467 1277	3858	1 43.4
25	42 22.48	22.93	16 2.6	2 34.2	466 7419	3172	1 27.3
29	11 41 59.55	23.54	+3 18 36.8	2 37.4	1.466 4247	2475	1 11.2
März 4	41 36.01	24.01	21 14.2	2 39.6	466 1772	1754	0 55.0
8	41 12.00	24.32	23 53.8	2 40.6	466 0018	1034	0 38.9
12	40 47.68	24.45	26 34.4	2 40.7	465 8984	306	0 22.8
16	40 23.23	24.43	29 15.1	2 39.7	465 8678	$\overline{424}$	0 6.6
20	11 39 58.80	24.25	+3 31 54.8	2 37.7	1.465 9102	1139	23 46.5
24	39 34.55	23.93	34 32.5	2 34.9	466 0241	1848	23 30.4
28	39 10.62	23.46	37 7.4	2 30.8	466 2089	2548	23 14.2
April 1	38 47.16	22.86	39 38.2	2 26.3	466 4637	3231	22 58.1
5	38 24.30	22.11	42 4.5	2 20.5	466 7868	3894	22 42.0
9	11 38 2.19	21.20	+3 44 25.0	2 13.9	1.467 1762	4535	22 25.9
13	37 40.99	20.16	46 38.9	2 6.5	467 6297	5149	22 9.9
17	37 20.83	19.01	48 45.4	1 58.4	468 1446	5724	21 53.8
21	37 1.82	17.76	50 43.8	1 49.8	468 7170	6268	21 37.7
25	36 44.06	16.40	52 33.6	1 40.4	469 3438	6783	21 21.7
29	11 36 27.66	14.96	+3 54 14.0	1 30.4	1.470 0221	7259	21 5.7
Mai 3	36 12.70	13.40	55 44.4	1 20.0	470 7480	7699	20 49.8
7	35 59.30	11.77	57 4.4	1 9.0	471 5179	8095	20 33.8
11	35 47.53	10.07	58 13.4	0 57.6	472 3274	8451	20 17.9
15	35 37.46	8.31	59 11.0	0 45.9	473 1725	8756	20 2.0
19	11 35 29.15	6.52	+3 59 56.9	0 34.1	1.474 0481	9020	19 46.2
23	35 22.63	4.67	+4 0 31.0	0 22.0	474 9501	9243	19 30.3
27	35 17.96	2.82	0 53.0	0 9.7	475 8744	9422	19 14.5
31	35 15.14	0.92	1 2.7	$\overline{0\ 2.6}$	476 8166	9557	18 58.8
Juni 4	35 14.22	$\overline{1.00}$	1 0.1	0 15.0	477 7723	9646	18 43.0
8	11 35 15.22	2.92	+4 0 45.1	0 27.4	1.478 7369	9688	18 27.3
12	35 18.14	4.83	+4 0 17.7	0 39.7	479 7057	9686	18 11.6
16	35 22.97	6.71	+3 59 38.0	0 51.9	480 6743	9639	17 56.0
20	35 29.68	8.58	58 46.1	1 3.7	481 6382	9554	17 40.4
24	35 38.26	10.41	57 42.4	1 15.5	482 5936	9428	17 24.8
28	35 48.67	12.24	56 26.9	1 26.9	483 5364	9269	17 9.3
Juli 2	11 36 0.91		+3 55 0.0		1.484 4633		16 53.7

Neptun 1940

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1940		h m s	s	° ′ ″	′ ″			h m
Juli	2	11 36 0.91	14.00	+3 55 0.0	1 38.2	1.484 4633	9061	16 53.7
	6	36 14.91	15.72	53 21.8	1 49.0	485 3694	8815	16 38.3
	10	36 30.63	17.39	51 32.8	1 59.5	486 2509	8536	16 22.8
	14	36 48.02	18.99	49 33.3	2 9.4	487 1045	8217	16 7.4
	18	37 7.01	20.51	47 23.9	2 19.0	487 9262	7871	15 52.0
	22	11 37 27.52	21.97	+3 45 4.9	2 28.0	1.488 7133	7495	15 36.6
	26	37 49.49	23.36	42 36.9	2 36.5	489 4628	7089	15 21.2
	30	38 12.85	24.69	40 0.4	2 44.7	490 1717	6655	15 5.9
Aug.	3	38 37.54	25.91	37 15.7	2 52.1	490 8372	6188	14 50.6
	7	39 3.45	27.05	34 23.6	2 58.9	491 4560	5697	14 35.3
	11	11 39 30.50	28.07	+3 31 24.7	3 5.0	1.492 0257	5186	14 20.0
	15	39 58.57	29.02	28 19.7	3 10.7	492 5443	4657	14 4.7
	19	40 27.59	29.86	25 9.0	3 15.6	493 0100	4109	13 49.5
	23	40 57.45	30.60	21 53.4	3 19.9	493 4209	3550	13 34.3
	27	41 28.05	31.26	18 33.5	3 23.4	493 7759	2966	13 19.0
	31	11 41 59.31	31.80	+3 15 10.1	3 26.4	1.494 0725	2371	13 3.8
Sept.	4	42 31.11	32.22	11 43.7	3 28.6	494 3096	1765	12 48.6
	8	43 3.33	32.52	8 15.1	3 29.9	494 4861	1147	12 33.4
	12	43 35.85	32.72	4 45.2	3 30.5	494 6008	534	12 18.3
	16	44 8.57	32.80	+3 1 14.7	3 30.5	494 6542	$\overline{88}$	12 3.1
	20	11 44 41.37	32.78	+2 57 44.2	3 29.8	1.494 6454	702	11 47.9
	24	45 14.15	32.65	54 14.4	3 28.2	494 5752	1329	11 32.7
	28	45 46.80	32.39	50 46.2	3 25.9	494 4423	1954	11 17.5
Okt.	2	46 19.19	32.03	47 20.3	3 23.0	494 2469	2574	11 2.3
	6	46 51.22	31.52	43 57.3	3 19.0	493 9895	3178	10 47.1
	10	11 47 22.74	30.91	+2 40 38.3	3 14.5	1.493 6717	3776	10 31.9
	14	47 53.65	30.19	37 23.8	3 9.2	493 2941	4356	10 16.7
	18	48 23.84	29.36	34 14.6	3 3.3	492 8585	4923	10 1.5
	22	48 53.20	28.44	31 11.3	2 56.6	492 3662	5474	9 46.2
	26	49 21.64	27.39	28 14.7	2 49.2	491 8188	6008	9 31.0
	30	11 49 49.03	26.23	+2 25 25.5	2 41.3	1.491 2180	6521	9 15.7
Nov.	3	50 15.26	24.97	22 44.2	2 32.5	490 5659	7003	9 0.4
	7	50 40.23	23.60	20 11.7	2 23.1	489 8656	7454	8 45.1
	11	51 3.83	22.15	17 48.6	2 13.1	489 1202	7876	8 29.8
	15	51 25.98	20.62	15 35.5	2 2.9	488 3326	8266	8 14.4
	19	11 51 46.60	19.01	+2 13 32.6	1 51.9	1.487 5060	8624	7 59.0
	23	52 5.61	17.31	11 40.7	1 40.5	486 6436	8946	7 43.6
	27	52 22.92	15.53	10 0.2	1 28.6	485 7490	9230	7 28.2
Dez.	1	52 38.45	13.70	8 31.6	1 16.4	484 8260	9468	7 12.7
	5	52 52.15	11.79	7 15.2	1 3.8	483 8792	9657	6 57.2
	9	11 53 3.94	9.86	+2 6 11.4	0 51.1	1.482 9135	9808	6 41.7
	13	53 13.80	7.89	5 20.3	0 38.1	481 9327	9909	6 26.1
	17	53 21.69	5.90	4 42.2	0 25.0	480 9418	9966	6 10.5
	21	53 27.59	3.87	4 17.2	0 11.8	479 9452	9977	5 54.9
	25	53 31.46	1.85	4 5.4	$\overline{0\ 1.4}$	478 9475	9936	5 39.2
	29	53 33.31	$\overline{0.20}$	4 6.8	0 14.6	477 9539	9842	5 23.5
	33	11 53 33.11		+2 4 21.4		1.476 9697		5 7.8

Pluto 1940

Tag		Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	log Δ		Licht-zeit	Obere Kulmination in Greenwich
		0h Welt-Zeit									
1940		h m s	s	s	° ′ ″	″	″			d	h m
Jan.	0	8 22 29.59	20.52	+1.31	+23 20 36.6	94.4	−4.9	1.579 6046	3263	0.2192	1 48
	4	22 9.07	21.23	1.35	22 11.0	94.8	4.9	579 2783	2730	2190	1 31
	8	21 47.84	21.79	1.39	23 45.8	94.7	4.9	579 0053	2182	2189	1 15
	12	21 26.05	22.22	1.41	25 20.5	94.1	4.9	578 7871	1622	2188	0 59
	16	21 3.83	22.50	1.43	26 54.6	93.0	4.8	578 6249	1055	2187	0 43
	20	8 20 41.33	22.64	+1.44	+23 28 27.6	91.4	−4.7	1.578 5194	488	0.2186	0 27
	24	20 18.69	22.65	1.45	29 59.0	89.3	4.6	578 4706	$\overline{79}$	2186	0 11
	28	19 56.04	22.51	1.44	31 28.3	86.9	4.5	578 4785	642	2186	23 51
Febr.	1	19 33.53	22.24	1.43	32 55.2	84.0	4.4	578 5427	1202	2186	23 35
	5	19 11.29	21.83	1.41	34 19.2	80.6	4.2	578 6629	1754	2187	23 19
	9	8 18 49.46	21.27	+1.39	+23 35 39.8	76.8	−4.0	1.578 8383	2294	0.2188	23 3
	13	18 28.19	20.57	1.36	36 56.6	72.6	3.8	579 0677	2818	2189	22 47
	17	18 7.62	19.76	1.32	38 9.2	68.3	3.6	579 3495	3320	2190	22 31
	21	17 47.86	18.82	1.27	39 17.5	63.6	3.3	579 6815	3799	2192	22 14
	25	17 29.04	17.78	1.21	40 21.1	58.6	3.0	580 0614	4255	2194	21 58
	29	8 17 11.26	16.63	+1.15	+23 41 19.7	53.4	−2.8	1.580 4869	4688	0.2196	21 42
März	4	16 54.63	15.38	1.09	42 13.1	48.0	2.5	580 9557	5094	2199	21 26
	8	16 39.25	14.03	1.02	43 1.1	42.3	2.2	581 4651	5470	2201	21 10
	12	16 25.22	12.58	0.94	43 43.4	36.6	1.9	582 0121	5813	2204	20 54
	16	16 12.64	11.07	0.86	44 20.0	30.8	1.6	582 5934	6120	2207	20 38
	20	8 16 1.57	9.51	+0.78	+23 44 50.8	24.9	−1.2	1.583 2054	6393	0.2210	20 23
	24	15 52.06	7.90	0.69	45 15.7	19.1	0.9	583 8447	6630	2213	20 7
	28	15 44.16	6.23	0.60	45 34.8	13.1	0.6	584 5077	6835	2217	19 51
April	1	15 37.93	4.52	0.51	45 47.9	+7.1	−0.2	585 1912	7005	2220	19 35
	5	15 33.41	2.78	0.41	45 55.0	+1.2	+0.1	585 8917	7138	2224	19 19
	9	8 15 30.63	1.02	+0.31	+23 45 56.2	−4.6	+0.4	1.586 6055	7233	0.2227	19 3
	13	15 29.61	$\overline{0.75}$	0.22	45 51.6	10.3	0.7	587 3288	7289	2231	18 48
	17	15 30.36	2.51	0.12	45 41.3	15.9	1.1	588 0577	7309	2235	18 32
	21	15 32.87	4.26	+0.02	45 25.4	21.4	1.4	588 7886	7294	2239	18 16
	25	15 37.13	5.99	−0.08	45 4.0	26.7	1.7	589 5180	7247	2242	18 1
	29	8 15 43.12	7.71	−0.18	+23 44 37.3	31.8	+2.0	1.590 2427	7167	0.2246	17 45
Mai	3	15 50.83	9.41	0.27	44 5.5	36.8	2.2	590 9594	7053	2250	17 29
	7	16 0.24	11.07	0.37	43 28.7	41.7	2.5	591 6647	6905	2253	17 14
	11	16 11.31	12.68	0.46	42 47.0	46.2	2.8	592 3552	6725	2257	16 58
	15	16 23.99	14.23	0.55	42 0.8	50.4	3.0	593 0277	6515	2261	16 43
	19	8 16 38.22	15.72	−0.64	+23 41 10.4	54.5	+3.3	1.593 6792	6277	0.2264	16 27
	23	16 53.94	17.16	0.72	40 15.9	58.3	3.5	594 3069	6015	2267	16 12
	27	17 11.10	18.53	0.80	39 17.6	61.9	3.7	594 9084	5728	2270	15 56
	31	17 29.63	19.84	0.88	38 15.7	65.2	3.9	595 4812	5416	2273	15 41
Juni	4	17 49.47	21.08	0.96	37 10.5	68.1	4.1	596 0228	5078	2276	15 26
	8	8 18 10.55	22.23	−1.03	+23 36 2.4	70.8	+4.2	1.596 5306	4718	0.2279	15 10
	12	18 32.78	23.29	1.09	34 51.6	73.2	4.4	597 0024	4340	2281	14 55
	16	18 56.07	24.26	1.15	33 38.4	75.3	4.5	597 4364	3944	2284	14 39
	20	19 20.33	25.15	1.20	32 23.1	77.0	4.6	597 8308	3534	2286	14 24
	24	19 45.48	25.95	1.25	31 6.1	78.5	4.7	598 1842	3111	2288	14 9
	28	20 11.43	26.67	1.30	29 47.6	79.7	4.8	598 4953	2672	2289	13 53
Juli	2	8 20 38.10		−1.34	+23 28 27.9		+4.8	1.598 7625		0.2291	13 38

Pluto 1940

Tag		Rektaszension 1950.0	Diff.	Fixstern-aberration	Deklination 1950.0	Diff.	Fixstern-aberration	log Δ	Diff.	Licht-zeit	Obere Kulmination in Greenwich
		0h Welt-Zeit									
1940		h m s	s	s	° ′ ″	″	″			d	h m
Juli	2	8 20 38.10	27.29	−1.34	+23 28 27.9	80.4	+4.8	1.598 7625	2220	0.2291	13 38
	6	21 5.39	27.81	1.37	27 7.5	80.9	4.9	598 9845	1757	2292	13 23
	10	21 33.20	28.22	1.40	25 46.6	81.0	4.9	599 1602	1286	2293	13 8
	14	22 1.42	28.52	1.42	24 25.6	80.8	4.9	599 2888	812	2293	12 52
	18	22 29.94	28.74	1.43	23 4.8	80.2	4.9	599 3700	335	2294	12 37
	22	8 22 58.68	28.86	−1.44	+23 21 44.6	79.3	+4.8	1.599 4035	$\overline{146}$	0.2294	12 22
	26	23 27.54	28.87	1.45	20 25.3	78.1	4.8	599 3889	629	2294	12 7
	30	23 56.41	28.79	1.44	19 7.2	76.5	4.7	599 3260	1114	2294	11 51
Aug.	3	24 25.20	28.60	1.43	17 50.7	74.5	4.6	599 2146	1597	2293	11 36
	7	24 53.80	28.30	1.42	16 36.2	72.2	4.4	599 0549	2075	2292	11 21
	11	8 25 22.10	27.90	−1.40	+23 15 24.0	69.7	+4.3	1.598 8474	2545	0.2291	11 6
	15	25 50.00	27.40	1.37	14 14.3	66.7	4.1	598 5929	3007	2290	10 50
	19	26 17.40	26.81	1.34	13 7.6	63.4	3.9	598 2922	3459	2288	10 35
	23	26 44.21	26.12	1.30	12 4.2	59.9	3.7	597 9463	3902	2286	10 20
	27	27 10.33	25.34	1.26	11 4.3	55.9	3.5	597 5561	4333	2284	10 5
	31	8 27 35.67	24.46	−1.21	+23 10 8.4	51.7	+3.3	1.597 1228	4749	0.2282	9 49
Sept.	4	28 0.13	23.48	1.15	9 16.7	47.1	3.0	596 6479	5149	2279	9 34
	8	28 23.61	22.41	1.09	8 29.6	42.3	2.8	596 1330	5529	2277	9 19
	12	28 46.02	21.25	1.03	7 47.3	37.3	2.5	595 5801	5886	2274	9 3
	16	29 7.27	20.02	0.96	7 10.0	32.0	2.2	594 9915	6222	2271	8 48
	20	8 29 27.29	18.72	−0.89	+23 6 38.0	26.5	+1.9	1.594 3693	6535	0.2268	8 33
	24	29 46.01	17.34	0.81	6 11.5	20.8	1.6	593 7158	6825	2264	8 17
	28	30 3.35	15.89	0.73	5 50.7	14.8	1.2	593 0333	7090	2261	8 2
Okt.	2	30 19.24	14.36	0.64	5 35.9	8.7	0.9	592 3243	7323	2257	7 46
	6	30 33.60	12.77	0.55	5 27.2	2.6	0.5	591 5920	7524	2253	7 31
	10	8 30 46.37	11.14	−0.46	+23 5 24.6	$\overline{3.7}$	+0.2	1.590 8396	7692	0.2249	7 15
	14	30 57.51	9.47	0.37	5 28.3	10.1	−0.2	590 0704	7829	2245	7 0
	18	31 6.98	7.77	0.27	5 38.4	16.5	0.5	589 2875	7933	2241	6 44
	22	31 14.75	6.01	0.17	5 54.9	22.9	0.9	588 4942	8004	2237	6 29
	26	31 20.76	4.23	−0.07	6 17.8	29.3	1.2	587 6938	8039	2233	6 13
	30	8 31 24.99	2.44	+0.03	+23 6 47.1	35.7	−1.6	1.586 8899	8035	0.2229	5 57
Nov.	3	31 27.43	0.64	0.13	7 22.8	41.9	1.9	586 0864	7990	2225	5 42
	7	31 28.07	$\overline{1.15}$	0.23	8 4.7	47.9	2.3	585 2874	7907	2221	5 26
	11	31 26.92	2.93	0.33	8 52.6	53.8	2.6	584 4967	7787	2217	5 10
	15	31 23.99	4.69	0.42	9 46.4	59.5	2.9	583 7180	7630	2213	4 54
	19	8 31 19.30	6.42	+0.52	+23 10 45.9	64.9	−3.2	1.582 9550	7438	0.2209	4 38
	23	31 12.88	8.12	0.61	11 50.8	70.1	3.5	582 2112	7208	2205	4 23
	27	31 4.76	9.77	0.70	13 0.9	75.0	3.8	581 4904	6938	2201	4 7
Dez.	1	30 54.99	11.35	0.79	14 15.9	79.4	4.0	580 7966	6631	2198	3 51
	5	30 43.64	12.87	0.88	15 35.3	83.4	4.2	580 1335	6288	2194	3 35
	9	8 30 30.77	14.31	+0.96	+23 16 58.7	87.0	−4.4	1.579 5047	5915	0.2191	3 19
	13	30 16.46	15.65	1.03	18 25.7	90.2	4.6	578 9132	5512	2188	3 3
	17	30 0.81	16.89	1.10	19 55.9	92.9	4.8	578 3620	5080	2185	2 47
	21	29 43.92	18.05	1.17	21 28.8	95.2	4.9	577 8540	4623	2183	2 31
	25	29 25.87	19.10	1.23	23 4.0	96.9	5.0	577 3917	4139	2181	2 15
	29	29 6.77	20.02	1.28	24 40.9	98.2	5.1	576 9778	3628	2179	1 59
	33	8 28 46.75		+1.32	+23 26 19.1		−5.1	1.576 6150		0.2177	1 43

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Jan. 0	+0.146 062	+17 270	− 43	+1	−0.892 084	+ 2 533	+278	+2	−0.386 911	+1 099	+120	−3
1	0.163 332	17 220	50	−5	0.889 551	2 809	276	−2	0.385 812	1 219	120	−3
2	0.180 552	17 165	55	−3	0.886 742	3 086	277	+1	0.384 593	1 339	120	−1
3	0.197 717	17 106	59	+4	0.883 656	3 361	275	−4	0.383 254	1 458	119	−2
4	0.214 823	17 041	65	+2	0.880 295	3 636	275	−4	0.381 796	1 578	120	+4
5	0.231 864	16 969	72	−4	0.876 659	3 910	274	−4	0.380 218	1 697	119	0
6	+0.248 833	+16 893	− 76	0	−0.872 749	+ 4 183	+273	−3	−0.378 521	+1 814	+117	−4
7	0.265 726	16 810	83	−3	0.868 566	4 455	272	−3	0.376 707	1 933	119	+4
8	0.282 536	16 723	87	+1	0.864 111	4 725	270	−4	0.374 774	2 050	117	0
9	0.299 259	16 629	94	−4	0.859 386	4 994	269	−1	0.372 724	2 166	116	−3
10	0.315 888	16 530	99	−3	0.854 392	5 261	267	+1	0.370 558	2 282	116	−1
11	0.332 418	16 426	104	−1	0.849 131	5 527	266	+5	0.368 276	2 397	115	−2
12	+0.348 844	+16 316	−110	−2	−0.843 604	+ 5 790	+263	+2	−0.365 879	+2 511	+114	−3
13	0.365 160	16 201	115	+1	0.837 814	6 052	262	+3	0.363 368	2 624	113	−2
14	0.381 361	16 082	119	+5	0.831 762	6 310	258	−4	0.360 744	2 736	112	0
15	0.397 443	15 956	126	0	0.825 452	6 567	257	+2	0.358 008	2 848	112	+5
16	0.413 399	15 827	129	+3	0.818 885	6 822	255	+5	0.355 160	2 958	110	+3
17	0.429 226	15 691	136	−3	0.812 063	7 074	252	+4	0.352 202	3 068	110	+4
18	+0.444 917	+15 552	−139	+3	−0.804 989	+ 7 324	+250	+3	−0.349 134	+3 176	+108	−1
19	0.460 469	15 408	144	+2	0.797 665	7 570	246	−4	0.345 958	3 282	106	−4
20	0.475 877	15 259	149	−1	0.790 095	7 814	244	−1	0.342 676	3 389	107	+3
21	0.491 136	15 106	153	−2	0.782 281	8 056	242	+2	0.339 287	3 494	105	+1
22	0.506 242	14 948	158	−4	0.774 225	8 295	239	+1	0.335 793	3 597	103	−3
23	0.521 190	14 787	161	0	0.765 930	8 530	235	−3	0.332 196	3 700	103	0
24	+0.535 977	+14 621	−166	−2	−0.757 400	+ 8 765	+235	+4	−0.328 496	+3 801	+101	−3
25	0.550 598	14 451	170	−2	0.748 635	8 995	230	−4	0.324 695	3 901	100	−1
26	0.565 049	14 278	173	+2	0.739 640	9 223	228	−5	0.320 794	4 001	100	+4
27	0.579 327	14 099	179	−3	0.730 417	9 448	225	−4	0.316 793	4 099	98	0
28	0.593 426	13 918	181	+3	0.720 969	9 672	224	+3	0.312 694	4 195	96	−3
29	0.607 344	13 731	187	−2	0.711 297	9 892	220	+1	0.308 499	4 291	96	+1
30	+0.621 075	+13 540	−191	−1	−0.701 405	+10 110	+218	+3	−0.304 208	+4 386	+ 95	+2
31	0.634 615	13 346	194	+5	0.691 295	10 325	215	+2	0.299 822	4 478	92	−3
Febr. 1	0.647 961	13 146	200	+1	0.680 970	10 536	211	−2	0.295 344	4 571	93	+4
2	0.661 107	12 943	203	+5	0.670 434	10 745	209	+2	0.290 773	4 661	90	−1
3	0.674 050	12 735	208	+3	0.659 689	10 951	206	+3	0.286 112	4 750	89	−3
4	0.686 785	12 523	212	+4	0.648 738	11 152	201	−2	0.281 362	4 837	87	−4
5	+0.699 308	+12 307	−216	+3	−0.637 586	+11 351	+199	+1	−0.276 525	+4 923	+ 86	−2
6	0.711 615	12 087	220	+1	0.626 235	11 545	194	−2	0.271 602	5 007	84	−1
7	0.723 702	11 862	225	−2	0.614 690	11 736	191	+2	0.266 595	5 090	83	+3
8	0.735 564	11 635	227	+5	0.602 954	11 923	187	+4	0.261 505	5 171	81	+4
9	0.747 199	+11 404	231	+3	0.591 031	+12 106	183	+5	0.256 334	+5 250	79	+4
10	+0.758 603		−236	−4	−0.578 925		+179	+5	−0.251 084		+ 78	+5

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Febr. 10	+0.758 603	+11 168	−236	−4	−0.578 925	+12 285	+179	+5	−0.251 084	+5 328	+78	+5
11	0.769 771	10 930	238	−1	0.566 640	12 460	175	+4	0.245 756	5 404	76	+1
12	0.780 701	10 688	242	−1	0.554 180	12 630	170	0	0.240 352	5 477	73	−5
13	0.791 389	10 444	244	+1	0.541 550	12 796	166	0	0.234 875	5 549	72	−3
14	0.801 833	10 195	249	−4	0.528 754	12 958	162	+3	0.229 326	5 619	70	0
15	0.812 028	9 945	250	+3	0.515 796	13 116	158	+4	0.223 707	5 688	69	+5
16	+0.821 973	+9 692	−253	+4	−0.502 680	+13 269	+153	+1	−0.218 019	+5 755	+67	+4
17	0.831 665	9 436	256	+2	0.489 411	13 418	149	−1	0.212 264	5 819	64	−2
18	0.841 101	9 178	258	+2	0.475 993	13 562	144	−4	0.206 445	5 882	63	−2
19	0.850 279	8 917	261	−2	0.462 431	13 702	140	−4	0.200 563	5 942	60	−4
20	0.859 196	8 654	263	−1	0.448 729	13 838	136	−4	0.194 621	6 002	60	+3
21	0.867 850	8 390	264	+4	0.434 891	13 969	131	−5	0.188 619	6 059	57	0
22	+0.876 240	+8 123	−267	+1	−0.420 922	+14 097	+128	−1	−0.182 560	+6 114	+55	−1
23	0.884 363	7 855	268	+2	0.406 825	14 220	123	−3	0.176 446	6 168	54	+3
24	0.892 218	7 583	272	−4	0.392 605	14 339	119	−1	0.170 278	6 220	52	+3
25	0.899 801	7 311	272	+4	0.378 266	14 455	116	+4	0.164 058	6 270	50	+2
26	0.907 112	7 036	275	+4	0.363 811	14 566	111	+2	0.157 788	6 319	49	+2
27	0.914 148	6 760	276	+5	0.349 245	14 674	108	+4	0.151 469	6 364	45	−4
28	+0.920 908	+6 480	−280	−3	−0.334 571	+14 776	+102	−2	−0.145 105	+6 410	+46	+3
29	0.927 388	6 199	281	−2	0.319 795	14 875	99	+2	0.138 695	6 452	42	−3
März 1	0.933 587	5 915	284	−3	0.304 920	14 969	94	+2	0.132 243	6 493	41	−2
2	0.939 502	5 631	284	+3	0.289 951	15 059	90	+3	0.125 750	6 531	38	−4
3	0.945 133	5 343	288	−3	0.274 892	15 144	85	+1	0.119 219	6 568	37	+1
4	0.950 476	5 055	288	0	0.259 748	15 224	80	−2	0.112 651	6 603	35	+4
5	+0.955 531	+4 764	−291	−5	−0.244 524	+15 299	+75	−2	−0.106 048	+6 636	+33	+2
6	0.960 295	4 472	292	−3	0.229 225	15 370	71	+2	0.099 412	6 666	30	−4
7	0.964 767	4 179	293	+1	0.213 855	15 435	65	0	0.092 746	6 694	28	−5
8	0.968 946	3 885	294	+2	0.198 420	15 496	61	+4	0.086 052	6 720	26	−4
9	0.972 831	3 590	295	0	0.182 924	15 552	56	+4	0.079 332	6 744	24	0
10	0.976 421	3 293	297	−5	0.167 372	15 602	50	0	0.072 588	6 767	23	+4
11	+0.979 714	+2 996	−297	−3	−0.151 770	+15 648	+46	+2	−0.065 821	+6 786	+19	−4
12	0.982 710	2 698	298	−2	0.136 122	15 688	40	0	0.059 035	6 803	17	−5
13	0.985 408	2 401	297	+4	0.120 434	15 724	36	+2	0.052 232	6 819	16	+1
14	0.987 809	2 102	299	−1	0.104 710	15 754	30	0	0.045 413	6 832	13	+1
15	0.989 911	1 804	298	+1	0.088 956	15 780	26	+2	0.038 581	6 844	12	+4
16	0.991 715	1 505	299	−2	0.073 176	15 800	20	−1	0.031 737	6 852	8	−2
17	+0.993 220	+1 207	−298	+1	−0.057 376	+15 816	+16	+1	−0.024 885	+6 860	+8	+3
18	0.994 427	909	298	−1	0.041 560	15 827	11	0	0.018 025	6 864	4	−3
19	0.995 336	611	298	−2	0.025 733	15 833	6	−3	0.011 161	6 867	3	−1
20	0.995 947	314	297	+1	−0.009 900	15 834	+1	−5	−0.004 294	6 868	+1	0
21	0.996 261	+18	296	+1	+0.005 934	+15 832	−2	0	+0.002 574	+6 867	−1	0
22	+0.996 279		−297	−5	+0.021 766		−8	−4	+0.009 441		−3	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			*ΔX**)	*Y*			*ΔY**)	*Z*			*ΔZ**)
1940												
März 22	+0.996 279	−279	−297	−5	+0.021 766	+15 824	−8	−4	+0.009 441	+6 864	−3	−1
23	0.996 000	575	296	−2	0.037 590	15 813	11	0	0.016 305	6 859	5	−3
24	0.995 425	870	295	+3	0.053 403	15 797	16	−2	0.023 164	6 852	7	−4
25	0.994 555	1 164	294	+5	0.069 200	15 777	20	−2	0.030 016	6 843	9	−2
26	0.993 391	1 459	295	−1	0.084 977	15 753	24	−1	0.036 859	6 833	10	+3
27	0.991 932	1 753	294	−1	0.100 730	15 724	29	−4	0.043 692	6 820	13	+2
28	+0.990 179	−2 047	−294	−4	+0.116 454	+15 690	−34	−4	+0.050 512	+6 806	−14	+5
29	0.988 132	2 341	294	−4	0.132 144	15 654	36	+4	0.057 318	6 790	16	+2
30	0.985 791	2 633	292	+3	0.147 798	15 611	43	−3	0.064 108	6 771	19	−3
31	0.983 158	2 925	292	+3	0.163 409	15 563	48	−5	0.070 879	6 750	21	−5
April 1	0.980 233	3 216	291	+3	0.178 972	15 512	51	+3	0.077 629	6 727	23	−3
2	0.977 017	3 506	290	0	0.194 484	15 456	56	+3	0.084 356	6 703	24	+4
3	+0.973 511	−3 796	−290	−5	+0.209 940	+15 394	−62	−1	+0.091 059	+6 677	−26	+5
4	0.969 715	4 084	288	−2	0.225 334	15 329	65	+4	0.097 736	6 647	30	−2
5	0.965 631	4 370	286	+2	0.240 663	15 258	71	−2	0.104 383	6 617	30	+5
6	0.961 261	4 655	285	−1	0.255 921	15 182	76	−4	0.111 000	6 585	32	+4
7	0.956 606	4 939	284	−5	0.271 103	15 102	80	0	0.117 585	6 549	36	−4
8	0.951 667	5 221	282	−3	0.286 205	15 018	84	+3	0.124 134	6 513	36	−1
9	+0.946 446	−5 500	−279	+1	+0.301 223	+14 928	−90	−2	+0.130 647	+6 474	−39	−4
10	0.940 946	5 779	279	−4	0.316 151	14 834	94	0	0.137 121	6 433	41	−5
11	0.935 167	6 054	275	+3	0.330 985	14 736	98	+2	0.143 554	6 390	43	−4
12	0.929 113	6 327	273	+4	0.345 721	14 633	103	−1	0.149 944	6 346	44	+1
13	0.922 786	6 598	271	+1	0.360 354	14 525	108	−4	0.156 290	6 300	46	+2
14	0.916 188	6 867	269	−1	0.374 879	14 414	111	+2	0.162 590	6 251	49	−1
15	+0.909 321	−7 132	−265	+2	+0.389 293	+14 299	−115	+3	+0.168 841	+6 202	−49	+4
16	0.902 189	7 396	264	−2	0.403 592	14 179	120	−2	0.175 043	6 150	52	0
17	0.894 793	7 656	260	+3	0.417 771	14 056	123	−1	0.181 193	6 096	54	−1
18	0.887 137	7 913	257	+5	0.431 827	13 928	128	−4	0.187 289	6 042	54	+5
19	0.879 224	8 168	255	+1	0.445 755	13 798	130	+2	0.193 331	5 985	57	+1
20	0.871 056	8 421	253	−2	0.459 553	13 664	134	+4	0.199 316	5 927	58	+2
21	+0.862 635	−8 670	−249	+3	+0.473 217	+13 527	−137	+4	+0.205 243	+5 868	−59	+3
22	0.853 965	8 917	247	+3	0.486 744	13 386	141	−1	0.211 111	5 806	62	−4
23	0.845 048	9 162	245	+1	0.500 130	13 241	145	−4	0.216 917	5 743	63	−2
24	0.835 886	9 404	242	+3	0.513 371	13 093	148	−1	0.222 660	5 680	63	+4
25	0.826 482	9 643	239	+5	0.526 464	12 942	151	+3	0.228 340	5 613	67	−3
26	0.816 839	9 880	237	+2	0.539 406	12 788	154	+4	0.233 953	5 546	67	+3
27	+0.806 959	−10 115	−235	−2	+0.552 194	+12 628	−160	−4	+0.239 499	+5 478	−68	+5
28	0.796 844	10 346	231	+1	0.564 822	12 466	162	+1	0.244 977	5 406	72	−2
29	0.786 498	10 575	229	−2	0.577 288	12 301	165	+4	0.250 383	5 335	71	+4
30	0.775 923	10 801	226	0	0.589 589	12 130	171	−3	0.255 718	5 261	74	−1
Mai 1	0.765 122	−11 023	222	+4	0.601 719	+11 958	172	+3	0.260 979	+5 185	76	−2
2	+0.754 099		−219	+5	+0.613 677		−178	−2	+0.266 164		−76	+4

*) *ΔX*, *ΔY*, *ΔZ* sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Mai 2	+0.754 099	−11 242	−219	+5	+0.613 677	+11 780	−178	−2	+0.266 164	+5 109	−76	+4
3	0.742 857	11 458	216	+3	0.625 457	11 601	179	+4	0.271 273	5 031	78	+3
4	0.731 399	11 670	212	+2	0.637 058	11 416	185	−2	0.276 304	4 951	80	−2
5	0.719 729	11 880	210	−4	0.648 474	11 229	187	+3	0.281 255	4 869	82	−5
6	0.707 849	12 084	204	+2	0.659 703	11 039	190	+4	0.286 124	4 787	82	0
7	0.695 765	12 287	203	−4	0.670 742	10 844	195	−2	0.290 911	4 703	84	−1
8	+0.683 478	−12 483	−196	+4	+0.681 586	+10 647	−197	+2	+0.295 614	+4 617	−86	−4
9	0.670 995	12 677	194	−2	0.692 233	10 447	200	+4	0.300 231	4 530	87	−1
10	0.658 318	12 867	190	−3	0.702 680	10 244	203	+3	0.304 761	4 443	87	+4
11	0.645 451	13 052	185	+1	0.712 924	10 037	207	−2	0.309 204	4 353	90	−1
12	0.632 399	13 232	180	+3	0.722 961	9 829	208	+2	0.313 557	4 263	90	0
13	0.619 167	13 410	178	−4	0.732 790	9 617	212	−4	0.317 820	4 171	92	−3
14	+0.605 757	−13 582	−172	+2	+0.742 407	+9 403	−214	−5	+0.321 991	+4 078	−93	−1
15	0.592 175	13 750	168	+4	0.751 810	9 186	217	−5	0.326 069	3 985	93	+5
16	0.578 425	13 913	163	+5	0.760 996	8 969	217	+2	0.330 054	3 891	94	+4
17	0.564 512	14 074	161	−2	0.769 965	8 748	221	−4	0.333 945	3 795	96	−3
18	0.550 438	14 229	155	+4	0.778 713	8 525	223	−4	0.337 740	3 698	97	−5
19	0.536 209	14 380	151	+5	0.787 238	8 302	223	+4	0.341 438	3 601	97	0
20	+0.521 829	−14 528	−148	+1	+0.795 540	+8 075	−227	0	+0.345 039	+3 503	−98	+2
21	0.507 301	14 671	143	+2	0.803 615	7 848	227	+5	0.348 542	3 404	99	+3
22	0.492 630	14 812	141	−4	0.811 463	7 618	230	0	0.351 946	3 305	99	+4
23	0.477 818	14 947	135	+4	0.819 081	7 386	232	−3	0.355 251	3 203	102	−3
24	0.462 871	15 079	132	+2	0.826 467	7 152	234	−4	0.358 454	3 102	101	+3
25	0.447 792	15 207	128	0	0.833 619	6 916	236	−3	0.361 556	3 000	102	+3
26	+0.432 585	−15 331	−124	−2	+0.840 535	+6 678	−238	0	+0.364 556	+2 896	−104	−1
27	0.417 254	15 451	120	−2	0.847 213	6 439	239	+3	0.367 452	2 792	104	+2
28	0.401 803	15 566	115	+1	0.853 652	6 197	242	−1	0.370 244	2 687	105	+3
29	0.386 237	15 677	111	−1	0.859 849	5 953	244	−3	0.372 931	2 582	105	+5
30	0.370 560	15 784	107	−3	0.865 802	5 707	246	−2	0.375 513	2 475	107	−2
31	0.354 776	15 886	102	−2	0.871 509	5 460	247	+3	0.377 988	2 367	108	−4
Juni 1	+0.338 890	−15 984	− 98	−3	+0.876 969	+ 5 212	−248	+5	+0.380 355	+2 260	−107	+1
2	0.322 906	16 076	92	+1	0.882 181	4 960	252	−3	0.382 615	2 150	110	−4
3	0.306 830	16 165	89	−5	0.887 141	4 708	252	+2	0.384 765	2 041	109	+2
4	0.290 665	16 248	83	−2	0.891 849	4 455	253	+4	0.386 806	1 932	109	+5
5	0.274 417	16 327	79	−3	0.896 304	4 199	256	−2	0.388 738	1 821	111	−1
6	0.258 090	16 400	73	+2	0.900 503	3 943	256	+1	0.390 559	1 710	111	−3
7	+0.241 690	−16 468	− 68	+2	+0.904 446	+ 3 685	−258	+1	+0.392 269	+1 598	−112	−5
8	0.225 222	16 532	64	−3	0.908 131	3 427	258	+5	0.393 867	1 486	112	−3
9	0.208 690	16 590	58	−1	0.911 558	3 168	259	+5	0.395 353	1 374	112	0
10	0.192 100	16 643	53	−2	0.914 726	2 908	260	+3	0.396 727	1 261	113	0
11	0.175 457	−16 692	49	−5	0.917 634	+ 2 648	260	+2	0.397 988	+1 149	112	+5
12	+0.158 765		− 43	0	+0.920 282		−261	−2	+0.399 137		−113	+2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Juni 12	+0.158 765	−16 735	− 43	0	+0.920 282	+2 387	−261	−2	+0.399 137	+1 036	−113	+2
13	0.142 030	16 773	38	+3	0.922 669	2 126	261	−2	0.400 173	923	113	0
14	0.125 257	16 807	34	+2	0.924 795	1 865	261	−1	0.401 096	809	114	−2
15	0.108 450	16 835	28	+5	0.926 660	1 604	261	0	0.401 905	697	112	+4
16	0.091 615	16 860	25	−1	0.928 264	1 343	261	+2	0.402 602	583	114	−3
17	0.074 755	16 880	20	−1	0.929 607	1 082	261	+2	0.403 185	470	113	−1
18	+0.057 875	−16 895	− 15	0	+0.930 689	+ 821	−261	+2	+0.403 655	+ 356	−114	−3
19	0.040 980	16 907	12	−4	0.931 510	560	261	+1	0.404 011	243	113	+2
20	0.024 073	16 913	6	+1	0.932 070	299	261	−1	0.404 254	130	113	+2
21	+0.007 160	16 916	− 3	0	0.932 369	+ 37	262	−5	0.404 384	+ 16	114	−2
22	−0.009 756	16 913	+ 3	+4	0.932 406	− 224	261	−2	0.404 400	− 97	113	0
23	0.026 669	16 907	6	−3	0.932 182	486	262	−2	0.404 303	211	114	−4
24	−0.043 576	−16 896	+ 11	−3	+0.931 696	− 747	−261	+2	+0.404 092	− 325	−114	−3
25	0.060 472	16 880	16	−2	0.930 949	1 009	262	+1	0.403 767	438	113	+1
26	0.077 352	16 860	20	−5	0.929 940	1 270	261	+3	0.403 329	552	114	0
27	0.094 212	16 835	25	−4	0.928 670	1 532	262	0	0.402 777	665	113	+4
28	0.111 047	16 805	30	−2	0.927 138	1 793	261	+2	0.402 112	778	113	+4
29	0.127 852	16 771	34	−2	0.925 345	2 054	261	+1	0.401 334	892	114	0
30	−0.144 623	−16 731	+ 40	+4	+0.923 291	−2 315	−261	+1	+0.400 442	−1 004	−112	+3
Juli 1	0.161 354	16 686	45	+4	0.920 976	2 575	260	+3	0.399 438	1 118	114	−3
2	0.178 040	16 638	48	−2	0.918 401	2 835	260	+2	0.398 320	1 230	112	+3
3	0.194 678	16 583	55	+5	0.915 566	3 094	259	+2	0.397 090	1 342	112	+2
4	0.211 261	16 524	59	+4	0.912 472	3 352	258	+1	0.395 748	1 454	112	−1
5	0.227 785	16 459	65	+5	0.909 120	3 610	258	−4	0.394 294	1 566	112	−4
6	−0.244 244	−16 390	+ 69	−1	+0.905 510	−3 867	−257	−4	+0.392 728	−1 677	−111	−1
7	0.260 634	16 316	74	−2	0.901 643	4 122	255	+1	0.391 051	1 787	110	+1
8	0.276 950	16 236	80	+1	0.897 521	4 375	253	+4	0.389 264	1 898	111	−3
9	0.293 186	16 153	83	−3	0.893 146	4 628	253	−2	0.387 366	2 006	108	+4
10	0.309 339	16 063	90	+4	0.888 518	4 878	250	+1	0.385 360	2 115	109	−2
11	0.325 402	15 970	93	−1	0.883 640	5 127	249	−2	0.383 245	2 223	108	−4
12	−0.341 372	−15 872	+ 98	−1	+0.878 513	−5 374	−247	−4	+0.381 022	−2 330	−107	−4
13	0.357 244	15 770	102	−3	0.873 139	5 620	246	−5	0.378 692	2 437	107	−5
14	0.373 014	15 664	106	−4	0.867 519	5 862	242	+2	0.376 255	2 542	105	0
15	0.388 678	15 553	111	−1	0.861 657	6 104	242	−3	0.373 713	2 647	105	−1
16	0.404 231	15 439	114	−4	0.855 553	6 344	240	−3	0.371 066	2 751	104	0
17	0.419 670	15 321	118	−2	0.849 209	6 581	237	+2	0.368 315	2 854	103	0
18	−0.434 991	−15 198	+123	+4	+0.842 628	−6 817	−236	−2	+0.365 461	−2 957	−103	−3
19	0.450 189	15 071	127	+4	0.835 811	7 052	235	−5	0.362 504	3 059	102	−1
20	0.465 260	14 941	130	−2	0.828 759	7 284	232	−1	0.359 445	3 159	100	+3
21	0.480 201	14 807	134	−5	0.821 475	7 515	231	−2	0.356 286	3 260	101	−3
22	0.495 008	−14 669	138	−5	0.813 960	−7 744	229	0	0.353 026	−3 359	99	0
23	−0.509 677		+143	0	+0.806 216		−227	+2	+0.349 667		− 99	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	*Y*			ΔY*)	*Z*			ΔZ*)
1940												
Juli 23	−0.509 677	−14 526	+143	0	+0.806 216	−7 971	−227	+2	+0.349 667	−3 458	−99	−1
24	0.524 203	14 380	146	−1	0.798 245	8 196	225	+3	0.346 209	3 555	97	+2
25	0.538 583	14 229	151	+2	0.790 049	8 419	223	+3	0.342 654	3 653	98	−2
26	0.552 812	14 074	155	+2	0.781 630	8 640	221	0	0.339 001	3 748	95	+5
27	0.566 886	13 915	159	0	0.772 990	8 860	220	−5	0.335 253	3 843	95	+3
28	0.580 801	13 753	162	−3	0.764 130	9 077	217	−1	0.331 410	3 937	94	+2
29	−0.594 554	−13 585	+168	+4	+0.755 053	−9 291	−214	+5	+0.327 473	−4 030	−93	0
30	0.608 139	13 414	171	+2	0.745 762	9 503	212	+4	0.323 443	4 122	92	−1
31	0.621 553	13 238	176	+3	0.736 259	9 713	210	+1	0.319 321	4 213	91	−2
Aug. 1	0.634 791	13 059	179	−1	0.726 546	9 921	208	−2	0.315 108	4 303	90	−2
2	0.647 850	12 875	184	+2	0.716 625	10 125	204	+3	0.310 805	4 391	88	+2
3	0.660 725	12 686	189	+4	0.706 500	10 326	201	+3	0.306 414	4 479	88	0
4	−0.673 411	−12 495	+191	−3	+0.696 174	−10 525	−199	−2	+0.301 935	−4 564	−85	+4
5	0.685 906	12 299	196	0	0.685 649	10 721	196	−2	0.297 371	4 649	85	0
6	0.698 205	12 099	200	+4	0.674 928	10 912	191	+4	0.292 722	4 732	83	0
7	0.710 304	11 895	204	+5	0.664 016	11 101	189	+1	0.287 990	4 814	82	−2
8	0.722 199	11 689	206	−1	0.652 915	11 286	185	+3	0.283 176	4 894	80	0
9	0.733 888	11 479	210	+2	0.641 629	11 467	181	+5	0.278 282	4 973	79	−1
10	−0.745 367	−11 265	+214	+4	+0.630 162	−11 645	−178	+2	+0.273 309	−5 050	−77	+1
11	0.756 632	11 050	215	−2	0.618 517	11 820	175	−1	0.268 259	5 126	76	0
12	0.767 682	10 830	220	+3	0.606 697	11 991	171	+1	0.263 133	5 200	74	0
13	0.778 512	10 609	221	−1	0.594 706	12 158	167	+1	0.257 933	5 273	73	−3
14	0.789 121	10 384	225	+2	0.582 548	12 323	165	−5	0.252 660	5 345	72	−5
15	0.799 505	10 157	227	+1	0.570 225	12 484	161	−4	0.247 315	5 415	70	−1
16	−0.809 662	−9 926	+231	+4	+0.557 741	−12 642	−158	−4	+0.241 900	−5 483	−68	+3
17	0.819 588	9 694	232	−4	0.545 099	12 796	154	−1	0.236 417	5 550	67	+1
18	0.829 282	9 459	235	−4	0.532 303	12 947	151	−1	0.230 867	5 616	66	−2
19	0.838 741	9 220	239	+1	0.519 356	13 095	148	−3	0.225 251	5 680	64	−1
20	0.847 961	8 980	240	−3	0.506 261	13 240	145	−3	0.219 571	5 743	63	−1
21	0.856 941	8 736	244	+1	0.493 021	13 380	140	+2	0.213 828	5 804	61	+1
22	−0.865 677	−8 490	+246	0	+0.479 641	−13 518	−138	−2	+0.208 024	−5 863	−59	+2
23	0.874 167	8 241	249	+2	0.466 123	13 652	134	−1	0.202 161	5 922	59	−4
24	0.882 408	7 989	252	+3	0.452 471	13 783	131	−1	0.196 239	5 978	56	−1
25	0.890 397	7 735	254	+1	0.438 688	13 909	126	+5	0.190 261	6 033	55	−3
26	0.898 132	7 478	257	+1	0.424 779	14 032	123	+2	0.184 228	6 087	54	−4
27	0.905 610	7 219	259	−2	0.410 747	14 152	120	−2	0.178 141	6 138	51	+3
28	−0.912 829	−6 957	+262	+1	+0.396 595	−14 267	−115	+1	+0.172 003	−6 188	−50	+3
29	0.919 786	6 692	265	+4	0.382 328	14 379	112	0	0.165 815	6 236	48	+4
30	0.926 478	6 425	267	+4	0.367 949	14 486	107	+4	0.159 579	6 282	46	+3
31	0.932 903	6 155	270	+5	0.353 463	14 589	103	+4	0.153 297	6 327	45	−2
Sept. 1	0.939 058	−5 883	272	+1	0.338 874	−14 687	98	+4	0.146 970	−6 370	43	−2
2	−0.944 941		+273	−4	+0.324 187		−95	−4	+0.140 600		−40	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			*ΔX**)	*Y*			*ΔY**)	*Z*			*ΔZ**)
1940												
Sept. 2	−0.944 941	−5 610	+273	−4	+0.324 187	−14 782	−95	−4	+0.140 600	−6 410	−40	+1
3	0.950 551	5 333	277	+1	0.309 405	14 872	90	−2	0.134 190	6 449	39	−3
4	0.955 884	5 056	277	−3	0.294 533	14 956	84	+5	0.127 741	6 486	37	−5
5	0.960 940	4 776	280	0	0.279 577	15 036	80	+4	0.121 255	6 521	35	−4
6	0.965 716	4 496	280	−5	0.264 541	15 112	76	0	0.114 734	6 554	33	−1
7	0.970 212	4 214	282	−4	0.249 429	15 182	70	+2	0.108 180	6 584	30	+4
8	−0.974 426	−3 932	+282	−5	+0.234 247	−15 249	−67	−3	+0.101 596	−6 613	−29	+1
9	0.978 358	3 647	285	+3	0.218 998	15 311	62	−2	0.094 983	6 640	27	−2
10	0.982 005	3 363	284	−2	0.203 687	15 368	57	−1	0.088 343	6 666	26	−4
11	0.985 368	3 077	286	0	0.188 319	15 422	54	−4	0.081 677	6 688	22	+2
12	0.988 445	2 791	286	−2	0.172 897	15 470	48	+3	0.074 989	6 710	22	−4
13	0.991 236	2 504	287	−1	0.157 427	15 515	45	0	0.068 279	6 730	20	−3
14	−0.993 740	−2 216	+288	+1	+0.141 912	−15 555	−40	0	+0.061 549	−6 747	−17	+3
15	0.995 956	1 927	289	+2	0.126 357	15 592	37	−3	0.054 802	6 763	16	+3
16	0.997 883	1 638	289	−1	0.110 765	15 623	31	+2	0.048 039	6 776	13	+4
17	0.999 521	1 348	290	−1	0.095 142	15 651	28	−2	0.041 263	6 789	13	−3
18	1.000 869	1 057	291	0	0.079 491	15 675	24	−3	0.034 474	6 799	10	−1
19	1.001 926	766	291	−4	0.063 816	15 694	19	0	0.027 675	6 807	8	−1
20	−1.002 692	− 474	+292	−4	+0.048 122	−15 708	−14	+2	+0.020 868	−6 814	− 7	−3
21	1.003 166	− 182	292	−5	0.032 414	15 719	11	−4	0.014 054	6 818	4	+1
22	1.003 348	+ 111	293	−2	0.016 695	15 726	7	−5	0.007 236	6 821	− 3	0
23	1.003 237	405	294	0	+0.000 969	15 727	− 1	+2	+0.000 415	6 821	0	+4
24	1.002 832	698	293	−2	−0.014 758	15 724	+ 3	+4	−0.006 406	6 820	+ 1	+2
25	1.002 134	993	295	+5	0.030 482	15 716	8	+4	0.013 226	6 816	4	+4
26	−1.001 141	+1 288	+295	+4	−0.046 198	−15 705	+11	−2	−0.020 042	−6 811	+ 5	0
27	0.999 853	1 583	295	+1	0.061 903	15 688	17	+2	0.026 853	6 804	7	−1
28	0.998 270	1 877	294	−4	0.077 591	15 666	22	+4	0.033 657	6 794	10	+3
29	0.996 393	2 173	296	+2	0.093 257	15 639	27	+3	0.040 451	6 782	12	+3
30	0.994 220	2 467	294	−2	0.108 896	15 608	31	−2	0.047 233	6 769	13	−1
Okt. 1	0.991 753	2 762	295	+2	0.124 504	15 571	37	−1	0.054 002	6 752	17	+3
2	−0.988 991	+3 056	+294	+1	−0.140 075	−15 530	+41	−2	−0.060 754	−6 735	+17	−4
3	0.985 935	3 349	293	−1	0.155 605	15 482	48	+4	0.067 489	6 714	21	+1
4	0.982 586	3 640	291	−3	0.171 087	15 431	51	−1	0.074 203	6 692	22	−1
5	0.978 946	3 932	292	+4	0.186 518	15 374	57	+2	0.080 895	6 667	25	0
6	0.975 014	4 221	289	−1	0.201 892	15 312	62	+2	0.087 562	6 641	26	−4
7	0.970 793	4 509	288	−3	0.217 204	15 247	65	−3	0.094 203	6 613	28	−3
8	−0.966 284	+4 795	+286	−5	−0.232 451	−15 176	+71	+2	−0.100 816	−6 582	+31	+3
9	0.961 489	5 080	285	−2	0.247 627	15 101	75	+3	0.107 398	6 550	32	+3
10	0.956 409	5 364	284	+1	0.262 728	15 021	80	+3	0.113 948	6 515	35	+5
11	0.951 045	5 645	281	−2	0.277 749	14 938	83	−3	0.120 463	6 479	36	+1
12	0.945 400	+5 926	281	+4	0.292 687	−14 851	87	−4	0.126 942	−6 441	38	−1
13	−0.939 474		+279	+4	−0.307 538		+93	+5	−0.133 383		+39	−3

*) *ΔX*, *ΔY*, *ΔZ* sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			*ΔX*)*	*Y*			*ΔY*)*	*Z*			*ΔZ*)*
1940												
Okt. 13	−0.939 474	+ 6 205	+279	+4	−0.307 538	−14 758	+ 93	+5	−0.133 383	−6 402	+ 39	−3
14	0.933 269	6 482	277	−1	0.322 296	14 661	97	+4	0.139 785	6 359	43	+3
15	0.926 787	6 757	275	−5	0.336 957	14 562	99	−3	0.146 144	6 316	43	−3
16	0.920 030	7 030	273	−4	0.351 519	14 456	106	+4	0.152 460	6 271	45	−4
17	0.913 000	7 303	273	+2	0.365 975	14 348	108	−3	0.158 731	6 224	47	−1
18	0.905 697	7 572	269	−3	0.380 323	14 235	113	−2	0.164 955	6 174	50	+4
19	−0.898 125	+ 7 841	+269	+2	−0.394 558	−14 118	+117	−1	−0.171 129	−6 123	+ 51	0
20	0.890 284	8 107	266	0	0.408 676	13 997	121	0	0.177 252	6 071	52	−5
21	0.882 177	8 372	265	+3	0.422 673	13 871	126	+3	0.183 323	6 016	55	−3
22	0.873 805	8 634	262	+1	0.436 544	13 741	130	+1	0.189 339	5 960	56	−5
23	0.865 171	8 895	261	+4	0.450 285	13 608	133	−5	0.195 299	5 902	58	−4
24	0.856 276	9 153	258	+2	0.463 893	13 470	138	−1	0.201 201	5 841	61	0
25	−0.847 123	+ 9 410	+257	+5	−0.477 363	−13 327	+143	+3	−0.207 042	−5 780	+ 61	−5
26	0.837 713	9 663	253	0	0.490 690	13 180	147	+3	0.212 822	5 716	64	−1
27	0.828 050	9 915	252	+4	0.503 870	13 028	152	+2	0.218 538	5 650	66	+1
28	0.818 135	10 164	249	+2	0.516 898	12 873	155	−5	0.224 188	5 582	68	+1
29	0.807 971	10 409	245	−2	0.529 771	12 713	160	−4	0.229 770	5 513	69	−3
30	0.797 562	10 653	244	+3	0.542 484	12 548	165	0	0.235 283	5 442	71	−1
31	−0.786 909	+10 892	+239	−3	−0.555 032	−12 379	+169	+1	−0.240 725	−5 368	+ 74	+4
Nov. 1	0.776 017	11 128	236	−3	0.567 411	12 205	174	+3	0.246 093	5 293	75	+2
2	0.764 889	11 360	232	−3	0.579 616	12 029	176	−3	0.251 386	5 217	76	0
3	0.753 529	11 590	230	+3	0.591 645	11 847	182	+3	0.256 603	5 138	79	+5
4	0.741 939	11 814	224	−3	0.603 492	11 662	185	0	0.261 741	5 058	80	+4
5	0.730 125	12 035	221	0	0.615 154	11 474	188	−4	0.266 799	4 976	82	+3
6	−0.718 090	+12 253	+218	+5	−0.626 628	−11 283	+191	−5	−0.271 775	−4 894	+ 82	−2
7	0.705 837	12 467	214	+4	0.637 911	11 087	196	+2	0.276 669	4 809	85	+3
8	0.693 370	12 676	209	0	0.648 998	10 889	198	0	0.281 478	4 723	86	+2
9	0.680 694	12 883	207	+3	0.659 887	10 687	202	+2	0.286 201	4 636	87	+1
10	0.667 811	13 084	201	−4	0.670 574	10 483	204	−1	0.290 837	4 547	89	+3
11	0.654 727	13 283	199	0	0.681 057	10 275	208	+2	0.295 384	4 457	90	+3
12	−0.641 444	+13 477	+194	−2	−0.691 332	−10 064	+211	+3	−0.299 841	−4 365	+ 92	+3
13	0.627 967	13 668	191	−1	0.701 396	9 850	214	+1	0.304 206	4 273	92	−3
14	0.614 299	13 854	186	−4	0.711 246	9 634	216	−5	0.308 479	4 179	94	−1
15	0.600 445	14 037	183	0	0.720 880	9 415	219	−4	0.312 658	4 084	95	0
16	0.586 408	14 216	179	+2	0.730 295	9 192	223	0	0.316 742	3 987	97	+4
17	0.572 192	14 391	175	+3	0.739 487	8 967	225	−2	0.320 729	3 889	98	+3
18	−0.557 801	+14 562	+171	+2	−0.748 454	− 8 739	+228	−3	−0.324 618	−3 790	+ 99	0
19	0.543 239	14 729	167	+1	0.757 193	8 509	230	−5	0.328 408	3 690	100	−3
20	0.528 510	14 892	163	−1	0.765 702	8 275	234	+1	0.332 098	3 589	101	−3
21	0.513 618	15 050	158	−3	0.773 977	8 038	237	+3	0.335 687	3 486	103	+1
22	0.498 568	+15 205	155	+2	0.782 015	− 7 799	239	−1	0.339 173	−3 382	104	+2
23	−0.483 363		+150	+2	−0.789 814		+242	−2	−0.342 555		+105	+3

*) *ΔX, ΔY, ΔZ* sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1940												
Nov. 23	−0.483 363	+15 355	+150	+2	−0.789 814	−7 557	+242	−2	−0.342 555	−3 277	+105	+3
24	0.468 008	15 501	146	+3	0.797 371	7 312	245	−1	0.345 832	3 170	107	+5
25	0.452 507	15 642	141	+3	0.804 683	7 064	248	−1	0.349 002	3 063	107	−1
26	0.436 865	15 778	136	+2	0.811 747	6 814	250	−4	0.352 065	2 955	108	−1
27	0.421 087	15 910	132	+4	0.818 561	6 561	253	−1	0.355 020	2 844	111	+4
28	0.405 177	16 036	126	−1	0.825 122	6 305	256	+3	0.357 864	2 734	110	−4
29	−0.389 141	+16 156	+120	−5	−0.831 427	−6 047	+258	+3	−0.360 598	−2 623	+111	−4
30	0.372 985	16 272	116	0	0.837 474	5 787	260	+2	0.363 221	2 509	114	+3
Dez. 1	0.356 713	16 382	110	+1	0.843 261	5 525	262	+2	0.365 730	2 396	113	−3
2	0.340 331	16 487	105	+2	0.848 786	5 261	264	+3	0.368 126	2 282	114	−5
3	0.323 844	16 586	99	+1	0.854 047	4 996	265	+2	0.370 408	2 167	115	−3
4	0.307 258	16 680	94	+3	0.859 043	4 729	267	+3	0.372 575	2 052	115	−3
5	−0.290 578	+16 769	+ 89	+4	−0.863 772	−4 461	+268	+3	−0.374 627	−1 935	+117	+3
6	0.273 809	16 852	83	0	0.868 233	4 191	270	+3	0.376 562	1 818	117	0
7	0.256 957	16 930	78	+1	0.872 424	3 922	269	−4	0.378 380	1 702	116	−4
8	0.240 027	17 003	73	+2	0.876 346	3 650	272	+2	0.380 082	1 583	119	+3
9	0.223 024	17 071	68	0	0.879 996	3 378	272	+2	0.381 665	1 466	117	−4
10	0.205 953	17 133	62	−4	0.883 374	3 104	274	+5	0.383 131	1 347	119	+1
11	−0.188 820	+17 190	+ 57	−4	−0.886 478	−2 830	+274	+2	−0.384 478	−1 228	+119	+1
12	0.171 630	17 243	53	0	0.889 308	2 556	274	−2	0.385 706	1 109	119	+2
13	0.154 387	17 289	46	−4	0.891 864	2 280	276	+2	0.386 815	989	120	+4
14	0.137 098	17 332	43	+3	0.894 144	2 004	276	+2	0.387 804	869	120	+2
15	0.119 766	17 369	37	+1	0.896 148	1 727	277	+2	0.388 673	749	120	−1
16	0.102 397	17 401	32	0	0.897 875	1 450	277	0	0.389 422	629	120	−2
17	−0.084 996	+17 428	+ 27	−2	−0.899 325	−1 172	+278	0	−0.390 051	− 508	+121	+1
18	0.067 568	17 450	22	−3	0.900 497	894	278	−1	0.390 559	387	121	+1
19	0.050 118	17 466	16	−5	0.901 391	614	280	+3	0.390 946	266	121	0
20	0.032 652	17 478	12	+2	0.902 005	335	279	−2	0.391 212	145	121	0
21	−0.015 174	17 485	7	+5	0.902 340	− 55	280	−2	0.391 357	− 23	122	+4
22	+0.002 311	17 486	+ 1	+2	0.902 395	+ 226	281	0	0.391 380	+ 99	122	+4
23	+0.019 797	+17 481	− 5	−2	−0.902 169	+ 506	+280	−3	−0.391 281	+ 221	+122	0
24	0.037 278	17 471	10	0	0.901 663	788	282	+4	0.391 060	342	121	−5
25	0.054 749	17 456	15	+2	0.900 875	1 069	281	+3	0.390 718	464	122	−1
26	0.072 205	17 434	22	−3	0.899 806	1 351	282	+5	0.390 254	586	122	+3
27	0.089 639	17 406	28	−3	0.898 455	1 632	281	+1	0.389 668	708	122	+5
28	0.107 045	17 374	32	+4	0.896 823	1 912	280	−2	0.388 960	830	122	+5
29	+0.124 419	+17 335	− 39	0	−0.894 911	+2 193	+281	+2	−0.388 130	+ 951	+121	0
30	0.141 754	17 290	45	−3	0.892 718	2 472	279	−3	0.387 179	1 072	121	−1
31	0.159 044	+17 239	51	−4	0.890 246	+2 750	278	−5	0.386 107	+1 192	120	−2
32	+0.176 283		− 56	−1	−0.887 496		+277	−3	−0.384 915		+121	+3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Mittleres Äquinoktium 1950.0

MERKUR 1940

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
1940		°	°	°	1940		°	°	°
Jan. −3	9.6337	209.02	−0.13	+2.26	Juni 30	9.6620	236.15	+0.06	−1.03
+2	9.6520	224.43	−0.02	+0.41	Juli 5	9.6683	250.05	+0.15	−2.67
7	9.6637	238.79	+0.08	−1.35	10	9.6681	263.79	+0.20	−4.13
12	9.6688	252.63	+0.16	−2.96	15	9.6614	277.80	+0.21	−5.38
17	9.6674	266.38	+0.21	−4.39	20	9.6480	292.53	+0.17	−6.34
22	9.6594	280.49	+0.21	−5.58	25	9.6280	308.48	+0.07	−6.91
27	9.6448	295.41	+0.15	−6.48	30	9.6014	326.27	−0.06	−6.93
Febr. 1	9.6235	311.66	+0.05	−6.97	Aug. 4	9.5694	346.62	−0.18	−6.14
6	9.5958	329.87	−0.09	−6.85	9	9.5350	10.27	−0.21	−4.28
11	9.5630	350.78	−0.20	−5.88	14	9.5048	37.63	−0.07	−1.24
16	9.5287	15.12	−0.19	−3.79	19	9.4886	68.11	+0.14	+2.45
21	9.5004	43.16	−0.03	−0.56	24	9.4938	99.55	+0.21	+5.51
26	9.4879	74.03	+0.17	+3.11	29	9.5178	129.09	+0.06	+6.92
März 2	9.4971	105.32	+0.19	+5.92	Sept. 3	9.5511	154.94	−0.12	+6.69
7	9.5237	134.24	+0.03	+6.99	8	9.5850	176.96	−0.21	+5.44
12	9.5576	159.35	−0.15	+6.52	13	9.6147	195.87	−0.19	+3.73
17	9.5910	180.72	−0.21	+5.14	18	9.6382	212.51	−0.11	+1.85
22	9.6196	199.14	−0.18	+3.37	23	9.6551	227.63	0.00	+0.01
27	9.6419	215.44	−0.09	+1.50	28	9.6654	241.84	+0.10	−1.71
April 1	9.6576	230.35	+0.02	−0.32	Okt. 3	9.6690	255.62	+0.18	−3.29
6	9.6665	244.45	+0.12	−2.02	8	9.6662	269.42	+0.21	−4.67
11	9.6690	258.20	+0.19	−3.56	13	9.6568	283.67	+0.20	−5.81
16	9.6649	272.05	+0.21	−4.90	18	9.6407	298.83	+0.13	−6.63
21	9.6543	286.43	+0.19	−5.99	23	9.6180	315.44	+0.02	−7.00
26	9.6369	301.81	+0.11	−6.74	28	9.5890	334.18	−0.12	−6.72
Mai 1	9.6130	318.78	−0.01	−7.00	Nov. 2	9.5554	355.79	−0.21	−5.53
6	9.5829	337.99	−0.14	−6.58	7	9.5217	20.93	−0.17	−3.17
11	9.5489	0.22	−0.21	−5.18	12	9.4960	49.72	+0.01	+0.24
16	9.5159	26.07	−0.15	−2.60	17	9.4881	80.93	+0.20	+3.85
21	9.4929	55.46	+0.06	+0.94	22	9.5018	111.92	+0.17	+6.31
26	9.4891	86.86	+0.21	+4.43	27	9.5308	140.07	−0.02	+7.00
31	9.5064	117.48	+0.14	+6.57	Dez. 2	9.5652	164.32	−0.17	+6.27
Juni 5	9.5371	144.92	−0.05	+6.95	7	9.5977	184.97	−0.21	+4.77
10	9.5716	168.44	−0.19	+6.03	12	9.6250	202.85	−0.16	+2.96
15	9.6033	188.51	−0.21	+4.44	17	9.6459	218.80	−0.07	+1.09
20	9.6295	205.97	−0.15	+2.61	22	9.6601	233.49	+0.04	−0.70
25	9.6491	221.63	−0.05	+0.75	27	9.6676	247.47	+0.14	−2.37
30	9.6620	236.15	+0.06	−1.03	32	9.6687	261.20	+0.20	−3.87

$\Omega = 47.739°$ $i = 7.004°$ $m = \frac{1}{6\,000\,000}$

Mittleres Äquinoktium 1950.0

0ʰ Welt-Zeit		Julian. Zeit	log r	Helioz. Länge	Red. auf d. Bahn	Heliozentr. Breite	log R	Länge
			VENUS 1940				ERDE 1940	
1940				°	in 0.001 °	°		°
Jan.	−8	2429 620.5	9.86201	335.030	+19	−3.329	9.99282	90.392
	+2	630.5	9.86157	350.897	− 8	−3.383	9.99267	100.583
	12	640.5	9.86096	6.800	−33	−3.179	9.99275	110.775
	22	650.5	9.86023	22.743	−48	−2.730	9.99305	120.958
Febr.	1	660.5	9.85942	38.728	−49	−2.069	9.99357	131.121
	11	2429 670.5	9.85861	54.759	−34	−1.245	9.99427	141.257
	21	680.5	9.85784	70.839	− 9	−0.321	9.99515	151.355
März	2	690.5	9.85720	86.966	+18	+0.631	9.99618	161.409
	12	700.5	9.85671	102.143	+40	+1.536	9.99731	171.413
	22	710.5	9.85644	119.360	+50	+2.321	9.99852	181.363
April	1	2429 720.5	9.85639	135.606	+44	+2.921	9.99976	191.257
	11	730.5	9.85658	151.860	+24	+3.288	0.00101	201.095
	21	740.5	9.85698	168.100	− 3	+3.393	0.00222	210.877
Mai	1	750.5	9.85756	184.301	−30	+3.228	0.00335	220.606
	11	760.5	9.85829	200.445	−47	+2.809	0.00439	230.286
	21	2429 770.5	9.85909	216.517	−49	+2.171	0.00530	239.923
	31	780.5	9.85991	232.513	−37	+1.368	0.00605	249.523
Juni	10	790.5	9.86068	248.439	−14	+0.462	0.00663	259.093
	20	800.5	9.86135	264.309	+14	−0.476	0.00701	268.642
	30	810.5	9.86186	280.139	+37	−1.376	0.00720	278.179
Juli	10	2429 820.5	9.86218	295.949	+49	−2.169	0.00718	287.712
	20	830.5	9.86228	311.759	+47	−2.798	0.00696	297.250
	30	840.5	9.86216	327.584	+30	−3.216	0.00654	306.803
Aug.	9	850.5	9.86182	343.435	+ 5	−3.390	0.00593	316.378
	19	860.5	9.86129	359.319	−22	−3.307	0.00515	325.983
	29	2429 870.5	9.86061	15.241	−43	−2.970	0.00422	335.627
Sept.	8	880.5	9.85983	31.204	−50	−2.404	0.00316	345.315
	18	890.5	9.85900	47.212	−43	−1.649	0.00201	355.053
	28	900.5	9.85820	63.267	−22	−0.764	0.00079	4.844
Okt.	8	910.5	9.85749	79.371	+ 6	+0.185	9.99954	14.691
	18	2429 920.5	9.85692	95.526	+31	+1.121	9.99830	24.595
	28	930.5	9.85653	111.725	+48	+1.971	9.99710	34.555
Nov.	7	940.5	9.85637	127.960	+49	+2.665	9.99598	44.568
	17	950.5	9.85644	144.214	+35	+3.147	9.99498	54.631
	27	960.5	9.85674	160.465	+10	+3.377	9.99413	64.736
Dez.	7	2429 970.5	9.85725	176.689	−18	+3.338	9.99346	74.877
	17	980.5	9.85791	192.863	−40	+3.036	9.99298	85.045
	27	2429 990.5	9.85869	208.971	−50	+2.495	9.99272	95.231

Venus: $\Omega = 76\overset{\circ}{.}230$ $i = 3\overset{\circ}{.}394$ $m = \frac{1}{408\,000}$

Erde: $m = \frac{1}{329\,390}$

Mittleres Äquinoktium 1950.0

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
	MARS 1940				JUPITER 1940			
1940		°	in 0.001	°		°	in 0.0001	°
Jan. −8	0.15890	34.478	− 7	−0.470	0.694580	11.8097	− 5	−1.3070
+2	0.16237	40.256	5	0.288	0.694566	12.7270	7	1.3061
12	0.16598	45.941	− 2	−0.105	0.694558	13.6443	10	1.3049
22	0.16968	51.531	+ 1	+0.075	0.694555	14.5617	12	1.3034
Febr. 1	0.17344	57.025	4	0.252	0.694556	15.4791	14	1.3016
11	0.17722	62.425	+ 7	+0.423	0.694563	16.3965	−17	−1.2994
21	0.18098	67.732	9	0.588	0.694575	17.3138	19	1.2969
März 2	0.18469	72.949	11	0.746	0.694593	18.2310	21	1.2941
12	0.18832	78.079	13	0.894	0.694616	19.1482	23	1.2909
22	0.19185	83.125	14	1.033	0.694644	20.0653	26	1.2874
April 1	0.19526	88.091	+15	+1.162	0.694676	20.9823	−28	−1.2835
11	0.19851	92.983	15	1.281	0.694714	21.8991	30	1.2793
21	0.20160	97.803	15	1.389	0.694757	22.8157	32	1.2748
Mai 1	0.20451	102.558	14	1.485	0.694805	23.7321	34	1.2700
11	0.20723	107.252	13	1.571	0.694859	24.6483	36	1.2648
21	0.20973	111.891	+12	+1.645	0.694918	25.5643	−39	−1.2593
31	0.21201	116.478	11	1.707	0.694982	26.4800	41	1.2535
Juni 10	0.21407	121.021	9	1.758	0.695051	27.3954	43	1.2474
20	0.21589	125.523	7	1.798	0.695126	28.3105	44	1.2410
30	0.21747	129.990	5	1.827	0.695206	29.2253	46	1.2343
Juli 10	0.21881	134.428	+ 2	+1.845	0.695290	30.1398	−48	−1.2273
20	0.21989	138.841	0	1.851	0.695379	31.0539	50	1.2199
30	0.22072	143.234	− 2	1.846	0.695473	31.9676	52	1.2122
Aug. 9	0.22129	147.614	4	1.831	0.695572	32.8809	53	1.2043
19	0.22160	151.984	6	1.805	0.695676	33.7938	55	1.1961
29	0.22165	156.351	− 8	+1.769	0.695784	34.7062	−57	−1.1875
Sept. 8	0.22144	160.719	10	1.722	0.695898	35.6181	58	1.1786
18	0.22098	165.093	12	1.665	0.696016	36.5295	60	1.1694
28	0.22026	169.480	13	1.598	0.696139	37.4404	61	1.1599
Okt. 8	0.21928	173.883	14	1.522	0.696267	38.3508	62	1.1502
18	0.21805	178.308	−15	+1.436	0.696400	39.2607	−64	−1.1402
28	0.21657	182.761	15	1.341	0.696537	40.1700	65	1.1299
Nov. 7	0.21484	187.247	15	1.237	0.696679	41.0787	66	1.1193
17	0.21288	191.770	14	1.125	0.696825	41.9868	67	1.1084
27	0.21069	196.336	14	1.005	0.696976	42.8942	68	1.0973
Dez. 7	0.20828	200.951	−12	+0.876	0.697131	43.8010	−69	−1.0859
17	0.20565	205.619	11	0.741	0.697291	44.7071	70	1.0742
27	0.20282	210.346	− 9	+0.598	0.697455	45.6125	−70	−1.0623

Mars: $\Omega = 49^\circ\!.172$ $\quad i = 1^\circ\!.850$ $\quad m = \frac{1}{3\,093\,500}$

Jupiter: $\Omega = 99^\circ\!.9528$ $\quad i = 1^\circ\!.3059$ $\quad m = \frac{1}{1047.35}$

Mittleres Äquinoktium 1950.0

SATURN 1940

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.0001	°
1939	Dez.	3	2429 600.5	0.968110	29.4192	− 58	−2.4725
1940	Jan.	12	640.5	0.967623	30.8336	71	2.4652
	Febr.	21	680.5	0.967141	32.2512	84	2.4563
	April	1	720.5	0.966664	33.6719	− 96	−2.4459
	Mai	11	760.5	0.966193	35.0956	109	2.4340
	Juni	20	800.5	0.965729	36.5224	121	2.4206
	Juli	30	840.5	0.965271	37.9522	−133	−2.4056
	Sept.	8	880.5	0.964820	39.3850	145	2.3891
	Okt.	18	920.5	0.964376	40.8207	156	2.3710
	Nov.	27	2429 960.5	0.963938	42.2592	−167	−2.3515

$\Omega = 113^\circ\!.2251 \quad i = 2^\circ\!.4903 \quad m = \frac{1}{3\,501.6}$

URANUS 1940

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.001	°
1939	Dez.	3	2429 600.5	1.29260	50.311	− 2	−0.309
1940	Jan.	12	640.5	1.29246	50.761	2	0.303
	Febr.	21	680.5	1.29232	51.211	2	0.297
	April	1	720.5	1.29218	51.662	− 2	−0.292
	Mai	11	760.5	1.29204	52.113	2	0.286
	Juni	20	800.5	1.29190	52.564	2	0.280
	Juli	30	840.5	1.29175	53.015	− 2	−0.275
	Sept.	8	880.5	1.29161	53.467	2	0.269
	Okt.	18	920.5	1.29146	53.919	2	0.263
	Nov.	27	2429 960.5	1.29132	54.371	− 2	−0.258

$\Omega = 73^\circ\!.745 \quad i = 0^\circ\!.773 \quad m = \frac{1}{22\,869}$

NEPTUN 1940

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.001	°
1939	Dez.	3	2429 600.5	1.48036	173.671	+ 14	+1.198
1940	Jan.	12	640.5	1.48037	173.907	14	1.203
	Febr.	21	680.5	1.48039	174.144	14	1.208
	April	1	720.5	1.48040	174.380	+ 14	+1.214
	Mai	11	760.5	1.48042	174.616	14	1.219
	Juni	20	800.5	1.48043	174.852	14	1.225
	Juli	30	840.5	1.48045	175.088	+ 14	+1.230
	Sept.	8	880.5	1.48046	175.324	14	1.235
	Okt.	18	920.5	1.48048	175.560	14	1.240
	Nov.	27	2429 960.5	1.48049	175.796	+ 14	+1.246

$\Omega = 131^\circ\!.230 \quad i = 1^\circ\!.775 \quad m = \frac{1}{19\,314}$

PLUTO 1940

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.001	°
1939	Okt.	24	2429 560.5	1.59028	121.564	+538	+3.651
1940	Jan.	12	640.5	1.58967	121.868	550	3.743
	April	1	720.5	1.58906	122.173	563	3.834
	Juni	20	800.5	1.58845	122.479	576	3.926
	Sept.	8	880.5	1.58784	122.786	589	4.018
	Nov.	27	2429 960.5	1.58722	123.094	+602	+4.110

$\Omega = 109^\circ\!.633 \quad i = 17^\circ\!.144 \quad m \approx \frac{1}{3\,300\,000}$

Mittlere und Scheinbare Sternörter 1940

Reduktionsgrößen

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
905	[2 Ceti]	4.62	A 0	0 0 40.020	+3.0735	+ 16	−17 40 11.70	+20.041	− 2
1	α Androm.	2.15	A 0 p	0 5 16.833	+3.1004	+ 103	+28 45 33.33	+19.879	− 159
2	β Cassiopeiae	2.42	F 5	0 5 57.715	+3.1982	+ 674	+58 49 8.15	+19.859	− 178
3	ε Phoenicis	3.94	K 0	0 6 22.325	+3.0470	+ 127	−46 4 41.94	+19.865	− 170
4	[22 Androm.]	5.08	F 0	0 7 11.555	+3.1166	+ 3	+45 44 18.50	+20.036	+ 3
5	[κ² Sculptoris]	5.56	K 0	0 8 31.760	+3.0473	+ 8	−28 8 1.67	+20.055	+ 25
6	[ϑ Sculptoris]	5.19	F 5	0 8 41.156	+3.0498	+ 129	−35 28 7.51	+20.165	+ 136
7	γ Pegasi	2.87	B 2	0 10 8.554	+3.0889	+ 1	+14 51 0.41	+20.017	− 6
8	†[Br 6 Ceph *m*]	6.23	B 9	0 12 47.546	+3.3916	+ 42	+76 37 3.23	+20.017	+ 5
9	ι Ceti	3.75	K 0	0 16 22.219	+3.0565	− 12	− 9 9 22.85	+19.965	− 27
10	ζ Tucanae	4.34	F 8	0 16 57.484	+3.1303	+2716	−65 13 37.98	+21.161	+1173
11	β Hydri	2.90	G 0	0 22 37.834	+3.1659	+6921	−77 35 31.15	+20.274	+ 329
12	α Phoenicis	2.44	K 0	0 23 19.376	+2.9670	+ 190	−42 37 53.66	+19.556	− 384
13	12 Ceti	6.04	K 5	0 26 58.545	+3.0619	+ 6	− 4 17 18.86	+19.901	− 3
14	[49 G. Ceti]	5.23	A 3	0 27 22.747	+2.9999	− 19	−24 7 9.64	+19.922	+ 22
15	[λ¹ Phoenicis]	4.88	A 2	0 28 31.636	+2.8958	+ 145	−49 8 6.21	+19.918	+ 30
16	[κ Cassiopeiae]	4.24	B 0	0 29 34.230	+3.4047	− 5	+62 36 3.47	+19.880	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 36.896	+3.3396	+ 17	+53 34 1.22	+19.822	− 6
18	π Androm.	4.44	B 3	0 33 40.144	+3.2033	+ 12	+33 23 21.54	+19.827	0
19	[ε Androm.]	4.52	G 5	0 35 22.711	+3.1694	− 176	+28 59 10.73	+19.558	− 247
20	δ Androm.	3.49	K 2	0 36 6.769	+3.2073	+ 104	+30 31 58.51	+19.707	− 88
21	α Cassiopeiae	2.47	K 0	0 37 5.259	+3.4010	+ 60	+56 12 31.14	+19.753	− 28
22	β Ceti	2.24	K 0	0 40 34.703	+3.0117	+ 165	−18 18 56.25	+19.769	+ 40
23	[η Phoenicis]	4.53	A 0	0 40 39.869	+2.6989	+ 4	−57 47 30.38	+19.750	+ 21
26	[λ² Sculptoris]	5.97	K 0	0 41 18.196	+2.9009	+ 201	−38 45 6.79	+19.845	+ 127
25	ο Cassiopeiae	4.70	B 2	0 41 22.221	+3.3411	+ 17	+47 57 22.90	+19.714	− 3
24	21 Cassiopeiae	5.59	A 2	0 41 38.823	+3.9492	− 52	+74 39 37.83	+19.693	− 20
27	ζ Androm.	4.30	K 0	0 44 9.163	+3.1793	− 75	+23 56 28.09	+19.596	− 76
28	[δ Piscium]	4.55	K 5	0 45 33.983	+3.1123	+ 55	+ 7 15 31.96	+19.603	− 45
31	[λ Hydri]	4.96	K 5	0 46 30.916	+2.0854	+ 355	−75 14 59.37	+19.608	− 24
29	[Br 82 Cass]	5.45	F 2 + A 2	0 47 3.886	+3.6342	+ 39	+63 55 16.79	+19.615	− 6
30	[φ² Ceti]	5.24	F 5	0 47 7.236	+3.0046	− 157	−10 58 1.43	+19.401	− 220
34	[λ² Tucanae]	5.34	K 0	0 52 46.223	+2.2438	+ 20	−69 51 4.53	+19.478	− 36
32	γ Cassiopeiae	2.25	B 0 p	0 53 4.106	+3.6160	+ 28	+60 23 32.36	+19.506	− 2
33	μ Androm.	3.94	A 2	0 53 24.857	+3.3286	+ 127	+38 10 27.68	+19.538	+ 37
35	α Sculptoris	4.39	B 5	0 55 42.963	+2.8909	+ 12	−29 40 52.80	+19.461	+ 7
36	ε Piscium	4.45	K 0	0 59 49.560	+3.1135	− 54	+ 7 34 3.20	+19.393	+ 30
37	[26 Ceti]	6.07	F 0	1 0 43.586	+3.0873	+ 78	+ 1 2 44.41	+19.307	− 36
38	†β Phoenicis *m*	3.35	K 0	1 3 24.571	+2.6781	− 29	−47 2 22.37	+19.290	+ 9
39	[ι Tucanae]	5.32	K 0	1 4 56.347	+2.3784	+ 108	−62 5 43.24	+19.246	+ 2

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
40	[η Ceti]	3.60	K 0	1 5 34.245	+3.0179	+ 147	−10 29 59.27	+19.100	−128
42	β Androm.	2.37	M 0	1 6 21.871	+3.3580	+ 146	+35 18 10.72	+19.096	−112
41	[44 H. Cephei]	5.68	A 0	1 7 0.545	+5.1569	+ 325	+79 21 19.33	+19.193	+ 2
43	[τ Piscium]	4.70	K 0	1 8 20.922	+3.3031	+ 53	+29 46 17.88	+19.126	− 32
44	[102 G. Sculpt.]	5.91	A 5	1 9 59.667	+2.7640	+ 69	−38 10 26.33	+19.091	− 24
45	υ Piscium	4.67	A 2	1 16 9.719	+3.2965	+ 16	+26 56 57.34	+18.937	− 9
47	ϑ Ceti	3.83	K 0	1 21 1.380	+2.9986	− 54	− 8 29 32.85	+18.587	−216
46	[ψ Cassiopeiae]	4.96	K 0	1 21 39.850	+4.2295	+ 126	+67 49 3.55	+18.814	+ 30
48	δ Cassiopeiae	2.80	A 5	1 21 52.249	+3.9199	+ 396	+59 55 27.10	+18.731	− 46
49	[γ Phoenicis]	3.40	K 5	1 25 45.702	+2.6059	− 16	−43 37 30.10	+18.458	−198
50	η Piscium	3.72	G 5	1 28 16.089	+3.2098	+ 18	+15 2 13.62	+18.571	− 3
53	[14 G. Hydri]	6.06	G 5	1 33 13.965	+0.3937	− 74	−78 48 32.88	+18.290	−118
51	40 Cassiopeiae	5.50	K 0	1 33 40.531	+4.7793	− 36	+72 44 6.76	+18.380	− 10
52	51 Androm.	3.77	K 0	1 34 17.809	+3.6803	+ 66	+48 19 30.16	+18.261	−109
54	α Eridani	0.60	B 5	1 35 28.938	+2.2356	+ 127	−57 32 27.62	+18.305	− 23
55	43 Cassiopeiae	5.54	A 0 p	1 37 51.958	+4.4345	+ 86	+67 44 26.04	+18.239	− 3
56	[ν Piscium]	4.68	K 0	1 38 18.330	+3.1219	− 17	+ 5 11 4.86	+18.233	+ 7
58	[129 G. Sculpt.]	5.64	A 0	1 39 24.288	+2.6439	− 39	−37 8 3.95	+18.168	− 19
57	φ Persei	4.19	B 0 p	1 39 53.147	+3.7575	+ 26	+50 23 14.44	+18.157	− 11
59	τ Ceti	3.65	K 0	1 41 16.790	+2.7873	−1192	−16 15 10.15	+18.975	+858
60	ο Piscium	4.50	K 0	1 42 13.288	+3.1678	+ 48	+ 8 51 23.47	+18.136	+ 54
61	ε Sculptoris	5.39	F 0	1 42 50.150	+2.8102	+ 117	−25 21 6.41	+18.007	− 52
62	ζ Ceti	3.92	K 0	1 48 29.832	+2.9612	+ 25	−10 37 50.67	+17.805	− 33
64	α Trianguli	3.58	F 5	1 49 39.238	+3.4190	+ 8	+29 17 14.58	+17.561	−231
63	ε Cassiopeiae	3.44	B 3	1 50 3.199	+4.3090	+ 40	+63 22 32.40	+17.758	− 17
65	ξ Piscium	4.84	K 0	1 50 26.776	+3.1058	+ 14	+ 2 53 31.66	+17.788	+ 28
67	ψ Phoenicis	4.41	M 3	1 51 14.523	+2.4057	− 82	−46 35 45.20	+17.648	− 79
66	β Arietis	2.72	A 5	1 51 19.196	+3.3134	+ 68	+20 30 55.97	+17.616	−108
69	[η^2 Hydri]	4.72	K 0	1 53 24.710	+1.5199	+ 128	−67 56 31.09	+17.726	+ 87
68	χ Eridani	3.73	G 5	1 53 37.470	+2.3356	+ 734	−51 54 24.87	+17.931	+301
72	α Hydri	3.02	F 0	1 56 52.777	+1.8909	+ 375	−61 51 40.32	+17.532	+ 40
71	υ Ceti	4.18	M 0	1 57 10.636	+2.8266	+ 93	−21 22 4.05	+17.463	− 16
70	50 Cassiopeiae	4.06	A 2	1 58 15.913	+5.1090	− 104	+72 7 56.40	+17.459	+ 28
73	γ Androm. *pr*	2.28 5.08	K 0 A 0	2 0 12.360	+3.6811	+ 44	+42 2 34.18	+17.301	− 47
74	α Arietis	2.23	K 2	2 3 47.096	+3.3812	+ 138	+23 10 46.70	+17.045	−144
75	β Trianguli	3.08	A 5	2 5 57.878	+3.5686	+ 119	+34 42 16.10	+17.052	− 38
77	[Br 299 Andr]	5.40	K 0	2 9 36.018	+3.9875	+ 366	+50 47 17.69	+16.756	−165
76	55 Cassiopeiae	6.15	F 5 + A 2	2 9 44.637	+4.6999	− 23	+66 14 40.36	+16.914	0
78	μ Fornacis	5.24	A 0	2 10 15.946	+2.6422	+ 14	−31 0 16.17	+16.903	+ 12
79	[γ Trianguli]	4.07	A 0	2 13 44.335	+3.5653	+ 35	+33 34 14.88	+16.681	− 44

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
80	67 Ceti	5.70	G 5	2 13 59.323	+2.9925	+ 60	− 6 41 52.00	+16.608	−105
82	[φ Eridani]	3.78	B 8	2 14 21.955	+2.1437	+ 98	−51 47 21.21	+16.679	− 16
81	[ϑ Arietis]	5.69	A 0	2 14 46.951	+3.3366	− 9	+19 37 28.51	+16.677	+ 3
83	[κ Fornacis]	5.37	F 5	2 19 47.796	+2.7455	+ 147	−24 5 17.31	+16.373	− 55
84	[λ Horologii]	5.47	F 2	2 23 13.146	+1.6774	− 95	−60 34 47.97	+16.130	−125
86	[κ Eridani]	4.44	B 5	2 24 47.156	+2.1996	+ 21	−47 58 20.72	+16.173	− 1
85	ξ² Ceti	4.34	A 0	2 24 57.890	+3.1894	+ 25	+ 8 11 31.71	+16.162	− 2
88	[λ¹ Fornacis]	5.88	K 0	2 30 36.870	+2.5015	− 19	−34 54 47.15	+15.851	− 17
87	36 H. Cassiop.	5.34	K 0	2 32 16.727	+5.6886	− 80	+72 33 27.79	+15.799	+ 23
90	μ Hydri	5.29	K 0	2 32 53.651	−1.2855	+ 460	−79 22 17.05	+15.711	− 36
89	ν Arietis	5.36	A 2	2 35 24.191	+3.4059	− 9	+21 42 11.13	+15.595	− 13
91	δ Ceti	4.04	B 2	2 36 24.233	+3.0748	+ 7	+ 0 4 14.69	+15.556	+ 3
95	[ε Hydri]	4.26	B 9	2 38 39.569	+0.9224	+ 171	−68 31 24.97	+15.444	+ 16
92	[Br 366 Cass]	5.84	A 2	2 39 37.912	+5.1530	+ 23	+67 34 17.14	+15.343	− 29
94	[35 Arietis]	4.58	B 3	2 39 55.442	+3.5198	+ 5	+27 27 11.02	+15.352	− 5
93	ϑ Persei	4.22	F 8	2 40 5.305	+4.0954	+ 344	+48 58 33.95	+15.264	− 83
96	†[γ Ceti]	3.58	A 2	2 40 11.312	+3.1084	− 95	+ 2 59 2.30	+15.195	−147
97	π Ceti	4.39	B 5	2 41 15.919	+2.8551	− 6	−14 6 42.66	+15.271	− 11
98	μ Ceti	4.36	F 0	2 41 41.666	+3.2427	+ 190	+ 9 51 42.85	+15.227	− 30
99	[η Persei]	3.93	K 0	2 46 18.165	+4.3730	+ 22	+55 38 52.89	+14.982	− 10
100	41 Arietis	3.68	B 8	2 46 26.718	+3.5305	+ 49	+27 0 51.92	+14.871	−113
101	β Fornacis	4.50	K 0	2 46 34.733	+2.5112	+ 72	−32 39 25.09	+15.140	+164
102	τ² Eridani	4.81	K 0	2 48 18.940	+2.7212	− 36	−21 15 1.46	+14.857	− 18
103	τ Persei	4.06	G 0 + A 5	2 49 59.330	+4.2509	+ 3	+52 31 6.30	+14.774	− 2
104	η Eridani	4.05	K 0	2 53 29.649	+2.9309	+ 53	− 9 8 9.14	+14.354	−214
106	ϑ Eridani *pr*	3.42 4.42	A 2	2 55 59.124	+2.2745	− 46	−40 32 39.22	+14.444	+ 26
105	47 H. Cephei	5.66	M 0	2 58 1.311	+7.9648	− 137	+79 11 3.72	+14.300	+ 11
107	α Ceti	2.82	M 0	2 59 8.387	+3.1359	− 6	+ 3 51 19.82	+14.151	− 73
108	γ Persei	3.08	F 5 + A 3	3 0 26.144	+4.3423	+ 1	+53 16 23.07	+14.141	− 2
109	*ρ Persei	var.	M 3	3 1 19.349	+3.8432	+ 111	+38 36 33.10	+13.985	−104
113	[ϑ Hydri]	5.52	B 8	3 2 7.059	+0.1212	+ 65	−72 8 12.11	+14.064	+ 23
110	μ Horologii	5.16	F 0	3 2 11.777	+1.4129	− 101	−59 58 11.41	+13.983	− 52
111	*β Persei	var.	B 8	3 4 15.330	+3.9023	+ 6	+40 43 33.59	+13.908	+ 3
112	[ι Persei]	4.17	G 0	3 4 43.415	+4.3273	+1296	+49 23 8.94	+13.800	− 75
114	δ Arietis	4.53	K 0	3 8 11.574	+3.4302	+ 107	+19 30 3.97	+13.651	− 4
117	†α Fornacis	3.95	F 8	3 9 31.262	+2.5484	+ 253	−29 13 21.35	+14.217	+646
116	[94 Ceti]	5.14	F 8	3 9 42.538	+3.0619	+ 131	− 1 25 9.50	+13.499	− 59
118	[38 G. Horol.]	5.72	N 0	3 11 1.738	+1.5187	+ 11	−57 32 44.03	+13.491	+ 17
115	48 H. Cephei	5.50	F 0	3 12 37.856	+7.5912	+ 196	+77 31 1.95	+13.311	− 55
119	[82 G. Erid]	4.30	G 5	3 17 31.883	+2.3959	+2786	−43 17 53.37	+13.801	+755

Nr. 109. Größe: Max. 3.3, Min. 4.1. Nr. 111. Größe: Max. 2.3, Min. 3.5.

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ' "	"	
120	α Persei	1.90	F 5	3 20 1.619	+4.2812	+ 30	+49 38 57.66	+12.857	— 22
121	o Tauri	3.80	G 5	3 21 34.836	+3.2284	— 45	+ 8 49 8.56	+12.704	— 71
123	[ξ Tauri]	3.75	B 8	3 23 54.810	+3.2513	+ 39	+ 9 31 29.61	+12.586	— 32
122	2 H. Camelop.	4.42	B 9 p	3 24 11.473	+4.8540	— 2	+59 43 59.36	+12.597	0
124	[σ Persei]	4.55	K o	3 26 19.984	+4.2283	+ 8	+47 47 23.38	+12.476	+ 24
125	5 Tauri	4.28	K o	3 27 33.384	+3.3122	+ 15	+12 43 56.76	+12.372	+ 3
126	[ϰ Reticuli]	4.80	F 5	3 28 19.434	+1.0459	+549	—63 8 54.64	+12.698	+381
127	ε Eridani	3.81	K o	3 30 6.089	+2.8266	—660	— 9 39 36.73	+12.213	+ 20
128	[45 G. Horol.]	5.60	K o	3 30 47.217	+1.7875	+ 75	—50 34 53.33	+12.233	+ 87
130	[110 G. Erid]	4.58	K o	3 34 56.379	+2.1526	— 13	—40 28 13.84	+11.832	— 23
129	[Grb 716 Caml]	5.32	M o	3 36 55.620	+5.2009	— 27	+63 1 27.72	+11.729	+ 17
131	δ Persei	3.10	B 5	3 38 38.532	+4.2700	+ 31	+47 35 50.98	+11.559	— 32
133	[δ Fornacis]	4.93	B 5	3 39 51.617	+2.3860	0	—32 7 44.34	+11.524	+ 19
135	[δ Eridani]	3.72	K o	3 40 22.304	+2.8742	— 63	— 9 57 55.09	+12.214	+746
132	†[o Persei]	3.94	B 1	3 40 32.974	+3.7616	+ 7	+32 5 59.19	+11.445	— 9
134	ν Persei	3.93	F 5	3 41 6.531	+4.0749	— 8	+42 23 26.68	+11.414	0
136	[17 Tauri]	3.81	B 5 p	3 41 18.430	+3.5622	+ 15	+23 55 34.43	+11.359	— 41
137	[24 Eridani]	5.09	B 8	3 41 27.473	+3.0472	0	— 1 21 3.83	+11.386	— 3
141	β Reticuli	3.80	K o	3 43 26.398	+0.7501	+481	—64 59 43.20	+11.331	+ 83
139	η Tauri	2.96	B 5 p	3 43 54.759	+3.5659	+ 15	+23 55 16.02	+11.169	— 44
138	γ Camelop.	4.67	A o	3 43 59.290	+6.3224	+ 38	+71 9 0.27	+11.166	— 38
140	τ^6 Eridani	4.33	F 8	3 44 15.907	+2.5812	—116	—23 25 32.97	+10.664	—524
142	[27 Tauri]	3.80	B 8	3 45 35.355	+3.5670	+ 13	+23 52 17.35	+11.048	— 43
143	138 G. Eridani	4.24	K o	3 47 12.437	+2.2450	— 43	—36 22 51.19	+10.929	— 44
146	γ Hydri	3.17	M o	3 48 8.793	—0.9352	+129	—74 25 23.70	+11.026	+120
144	ζ Persei	2.91	B 1	3 50 21.252	+3.7708	+ 7	+31 42 25.41	+10.731	— 10
145	†*9 H. Camel.	5.22	K o + A o	3 52 0.205	+5.1118	— 5	+60 56 7.20	+10.606	— 12
147	ε Persei	2.96	B 1	3 53 49.181	+4.0251	+ 18	+39 50 18.10	+10.457	— 26
148	ξ Persei	4.05	O e 5	3 55 3.901	+3.8923	+ 4	+35 37 12.73	+10.390	— 1
149	γ Eridani	3.19	K 5	3 55 13.691	+2.7993	+ 44	—13 40 40.67	+10.271	—108
150	*λ Tauri	var.	B 3	3 57 21.141	+3.3238	— 4	+12 19 20.08	+10.209	— 11
151	ν Tauri	3.94	A o	3 59 57.668	+3.1912	+ 1	+ 5 49 27.45	+10.024	+ 1
153	[174 G. Erid]	5.57	A 5	4 3 8.969	+2.4731	+153	—27 48 53.37	+ 9.886	+105
152	48 Persei	4.03	B 3 p	4 4 17.758	+4.3544	+ 24	+47 33 15.40	+ 9.664	— 27
154	o^1 Eridani	4.14	F 2	4 8 56.058	+2.9287	+ 6	— 6 59 33.66	+ 9.421	+ 86
155	α Horologii	3.83	K o	4 12 0.687	+1.9876	+ 32	—42 26 28.87	+ 8.893	—204
156	α Reticuli	3.36	G 5	4 13 38.798	+0.7717	+ 61	—62 37 25.05	+ 9.023	+ 53
157	[γ Doradus]	4.36	F 5	4 14 27.119	+1.5716	+107	—51 38 13.72	+ 9.099	+192
160	†υ^4 Eridani *m*	3.59	B 9	4 15 37.328	+2.2702	+ 48	—33 56 37.43	+ 8.812	— 3
159	[γ Tauri]	3.86	K o	4 16 22.509	+3.4142	+ 81	+15 29 3.49	+ 8.732	— 23

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2.

Nr. 150. Größe: Max. 3.3, Min. 4.2.

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
158	[54 Persei]	5.10	G 5	4 16 30.509	+3.8951	— 20	+34 25 25.02	+8.738	— 6
161	[212 G. Erid]	5.31	A 0	4 18 1.877	+2.6173	+ 19	—20 46 53.59	+8.616	— 8
162	δ Tauri	3.93	K 0	4 19 28.248	+3.4599	+ 76	+17 24 12.18	+8.483	— 27
163	[η Reticuli]	5.18	K 0	4 21 14.071	+0.6479	+128	—63 31 42.47	+8.547	+175
166	[δ Mensae]	5.62	K 0 p	4 21 58.963	—4.0682	+128	—80 21 22.54	+8.385	+ 69
164	ε Tauri	3.63	K 0	4 25 6.551	+3.5032	+ 77	+19 2 56.36	+8.027	— 34
165	*[1 Camel. sq]	5.42	B 1	4 27 16.037	+4.7505	0	+53 46 57.40	+7.887	— 1
167	[δ Caeli]	5.16	B 3	4 28 59.730	+1.8375	+ 1	—45 4 53.83	+7.752	+ 2
168	α Tauri	1.06	K 5	4 32 28.475	+3.4425	+ 47	+16 23 24.92	+7.280	—188
171	α Doradus	3.47	A 0 p	4 32 41.818	+1.2962	+ 57	—55 10 6.00	+7.456	+ 5
170	[υ² Eridani]	3.88	K 0	4 33 12.976	+2.3325	— 39	—30 41 2.71	+7.398	— 10
169	ν Eridani	4.12	B 2	4 33 19.124	+2.9979	+ 2	— 3 28 25.38	+7.397	— 2
172	53 Eridani	3.98	K 0	4 35 25.859	+2.7479	— 48	—14 25 12.13	+7.067	—161
174	τ Tauri	4.33	B 5	4 38 38.392	+3.6008	— 1	+22 50 36.74	+6.950	— 15
173	Grb 848 Caml	6.04	F 0	4 40 43.344	+8.0652	+104	+75 50 8.73	+6.656	—134
176	[μ Eridani]	4.18	B 5	4 42 29.996	+2.9999	+ 9	— 3 21 47.46	+6.638	— 10
175	4 Camelop.	5.35	A 2	4 42 59.746	+4.9968	+ 65	+56 39 10.84	+6.460	—145
177	[μ Mensae]	5.69	B 9	4 43 39.251	—0.6006	+ 20	—71 2 28.74	+6.588	+ 34
179	[π⁴ Orionis]	3.78	B 3	4 48 0.468	+3.1954	— 2	+ 5 30 14.64	+6.193	+ 3
178	α Camelop.	4.38	B 0	4 48 4.164	+5.9612	+ 3	+66 14 37.20	+6.193	+ 9
180	π⁵ Orionis	3.87	B 3	4 51 7.406	+3.1251	— 3	+ 2 20 38.22	+5.934	+ 3
181	ι Aurigae	2.90	K 2	4 53 4.912	+3.9068	+ 3	+33 4 22.70	+5.749	— 18
183	*ε Aurigae	var.	F 5 p	4 57 39.483	+4.3051	+ 4	+43 44 11.80	+5.376	— 6
182	β Camelop.	4.22	G 0 p	4 58 4.235	+5.3355	— 6	+60 21 25.65	+5.332	— 14
184	ι Tauri	4.70	A 5	4 59 30.358	+3.5861	+ 47	+21 30 21.65	+5.187	— 40
185	η Aurigae	3.28	B 3	5 2 18.135	+4.2070	+ 27	+41 9 19.48	+4.924	— 66
186	ε Leporis	3.29	K 5	5 2 55.179	+2.5398	+ 18	—22 27 1.29	+4.870	— 69
187	[η² Pictoris]	4.92	K 5	5 3 24.574	+1.5530	+ 55	—49 39 30.23	+4.898	0
189	[ζ Doradus]	4.76	F 8	5 4 28.719	+1.0275	— 52	—57 33 14.79	+4.926	+118
188	β Eridani	2.92	A 3	5 4 53.879	+2.9495	— 64	— 5 9 45.11	+4.693	— 77
190	[λ Eridani]	4.34	B 2	5 6 16.390	+2.8713	+ 1	— 8 49 46.61	+4.651	— 3
192	μ Aurigae	4.78	A 3	5 9 19.091	+4.1053	— 17	+38 24 55.29	+4.315	— 78
194	β Orionis	0.34	B 8 p	5 11 39.167	+2.8834	+ 2	— 8 16 10.37	+4.194	— 1
193	α Aurigae	0.21	G 0	5 12 15.148	+4.4322	+ 81	+45 56 21.17	+3.720	—422
191	19 H. Camelop.	5.16	F 8	5 12 37.732	+9.8785	—293	+79 10 1.31	+4.265	+158
196	ϑ Doradus	4.78	K 0	5 13 47.809	—0.0483	+ 10	—67 15 10.39	+4.049	+ 35
195	[τ Orionis]	3.68	B 5	5 14 41.473	+2.9132	— 11	— 6 54 28.14	+3.927	— 8
197	[ο Columbae]	4.91	K 0	5 15 19.147	+2.1637	+ 69	—34 57 10.26	+3.544	—338
198	[12 G. Columb.]	5.75	A 0	5 17 0.131	+2.3923	+ 5	—27 25 45.47	+3.733	— 4
199	[ζ Pictoris]	5.52	F 8	5 17 53.643	+1.4707	+ 10	—50 40 10.89	+3.894	+234

Nr. 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61. Nr. 183. Größe: Max. 3.4, Min. 4.1.

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
200	†[η Orion. *m*]	3.44	B 1	5 21 27.511	+3.0167	0	− 2 27 2.87	+3.355	+ 2
201	γ Orionis	1.70	B 2	5 21 54.657	+3.2179	− 6	+ 6 17 48.81	+3.299	− 15
202	β Tauri	1.78	B 8	5 22 29.787	+3.7927	+ 20	+28 33 31.08	+3.087	−175
203	17 Camelop.	5.75	K 5	5 24 29.738	+5.6658	− 7	+63 1 11.69	+3.087	− 2
204	[β Leporis]	2.96	G 0	5 25 40.398	+2.5711	+ 1	−20 48 21.78	+2.898	− 91
206	δ Orionis	2.48 6.87	B 0	5 28 56.369	+3.0652	0	− 0 20 31.15	+2.707	+ 1
207	α Leporis	2.69	F 0	5 30 4.945	+2.6463	+ 2	−17 51 50.00	+2.611	+ 4
208	[φ¹ Orionis]	4.53	B 0	5 31 31.477	+3.2937	− 1	+ 9 27 2.09	+2.479	− 2
205	Grb 966 Caml	6.36	K 5	5 31 41.273	+8.0228	− 20	+75 0 29.19	+2.489	+ 26
209	ι Orionis	2.87	O e 5	5 32 29.787	+2.9350	+ 1	− 5 56 51.90	+2.402	+ 4
212	β Doradus	3.81	F 5 p	5 33 6.072	+0.5197	− 11	−62 31 43.63	+2.355	+ 9
210	ε Orionis	1.75	B 0	5 33 10.035	+3.0444	0	− 1 14 19.32	+2.340	+ 1
211	ζ Tauri	3.00	B 3 p	5 34 3.405	+3.5857	+ 1	+21 6 27.75	+2.239	− 22
214	[γ Mensae]	5.06	K 0	5 34 14.962	−2.3782	+306	−76 23 5.43	+2.543	+295
213	†[σ Orionis *m*]	3.78	B 0	5 35 43.933	+3.0119	− 1	− 2 37 59.42	+2.118	+ 2
215	α Columbae	2.75	B 5 p	5 37 28.483	+2.1728	+ 2	−34 6 17.86	+1.939	− 26
216	ο Aurigae	5.52	A 0	5 41 14.948	+4.6482	− 10	+49 48 8.40	+1.632	− 3
217	[γ Leporis]	3.80	F 8	5 41 57.656	+2.5017	−205	−22 28 0.09	+1.203	−371
218	[130 Tauri]	5.51	F 0	5 43 56.169	+3.4983	− 4	+17 42 29.96	+1.393	− 8
219	ζ Leporis	3.67	A 2	5 44 14.119	+2.7186	− 12	−14 50 34.87	+1.370	− 5
220	κ Orionis	2.20	B 0	5 44 54.570	+2.8456	+ 2	− 9 41 22.38	+1.313	− 4
221	[ν Aurigae]	4.18	K 0	5 47 19.756	+4.1581	− 5	+39 7 58.65	+1.111	+ 7
222	[δ Leporis]	3.90	K 0	5 48 44.406	+2.5806	+167	−20 52 58.38	+0.334	−649
223	[β Columbae]	3.22	K 0	5 48 50.570	+2.1148	+ 39	−35 47 23.20	+1.378	+404
224	α Orionis	0.92	M 0	5 51 55.337	+3.2483	+ 19	+ 7 23 51.06	+0.715	+ 11
226	[η Leporis]	3.77	F 0	5 53 40.242	+2.7328	− 29	−14 10 38.35	+0.689	+138
225	δ Aurigae	3.88	K 0	5 54 35.116	+4.9406	+ 97	+54 16 57.03	+0.343	−127
227	β Aurigae	2.07	A 0 p	5 55 7.573	+4.4014	− 50	+44 56 36.69	+0.420	− 3
228	†ϑ Aurigae	2.71	A 0 p	5 55 37.708	+4.0915	+ 40	+37 12 37.30	+0.296	− 83
229	η Columbae	4.03	K 0	5 57 18.510	+1.8363	+ 13	−42 49 3.44	+0.217	− 17
230	[66 Orionis]	5.70	K 0	6 1 48.052	+3.1699	− 4	+ 4 9 49.00	−0.166	− 7
231	[1 G. Puppis]	6.22	F 8	6 2 44.705	+1.7265	− 88	−45 2 7.50	+0.005	+247
232	ν Orionis	4.40	B 2	6 4 8.695	+3.4258	+ 3	+14 46 38.32	−0.388	− 23
233	[36 Camelop.]	5.39	K 0	6 6 48.921	+6.0369	+ 12	+65 44 0.14	−0.629	− 29
235	[δ Pictoris]	4.84	B 1	6 9 7.687	+1.1676	− 19	−54 57 16.31	−0.786	+ 13
236	†*η Gemin.	var.	M 0	6 11 15.291	+3.6218	− 48	+22 31 33.55	−1.000	− 13
239	[α Mensae]	5.14	K 0	6 12 1.827	−1.7853	+305	−74 44 0.11	−1.266	−215
234	22 H. Camelop.	4.73	A 0	6 12 14.245	+6.6132	+ 9	+69 20 39.42	−1.178	−103
237	[2 Lyncis]	4.42	A 0	6 14 19.783	+5.2944	− 12	+59 2 6.73	−1.236	+ 20
238	[κ Columbae]	4.51	K 0	6 14 24.925	+2.1338	− 14	−35 7 10.05	−1.178	+ 84

Nr. 236. Größe: Max. 3.3, Min. 4.2.

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ' "	"	
240	ζ Canis maj.	3.10	B 3	6 18 0.511	+ 2.3033	+ 5	−30 2 7.90	−1.570	+ 5
241	μ Geminor.	3.19	M o	6 19 19.802	+ 3.6299	+ 40	+22 32 46.20	−1.804	− 112
243	β Canis maj.	1.99	B 1	6 20 3.378	+ 2.6422	− 4	−17 55 29.54	−1.757	− 4
242	ψ¹ Aurigae	5.10	K 2	6 20 16.670	+ 4.6217	+ 1	+49 19 14.80	−1.779	− 4
244	8 ε Monocer.	4.48 6.54	A 5	6 20 35.264	+ 3.1795	− 12	+ 4 37 29.77	−1.790	+ 11
245	α Carinae	−0.86	F o	6 22 37.145	+ 1.3324	+ 24	−52 39 43.66	−1.951	+ 25
246	10 Monocer.	4.98	B 3	6 24 59.721	+ 2.9627	− 6	− 4 43 24.82	−2.179	+ 4
247	8 Lyncis	6.05	G o	6 32 12.641	+ 5.4845	−289	+61 32 11.59	−3.090	− 279
249	ξ² Canis maj.	4.54	A o	6 32 32.420	+ 2.5145	+ 6	−22 54 57.68	−2.824	+ 14
251	γ Geminor.	1.93	A o	6 34 14.740	+ 3.4663	+ 30	+16 27 7.84	−3.031	− 44
250	51 Aurigae	5.71	K o	6 34 30.110	+ 4.1578	− 22	+39 26 44.51	−3.124	− 115
252	ν Puppis	3.18	B 8	6 35 55.433	+ 1.8355	− 7	−43 8 32.36	−3.132	− 1
248	23 H. Camelop.	5.60	F 8	6 36 1.854	+10.2568	−302	+79 38 4.32	−3.753	− 608
253	†*S Monoc.	4.68	O e 5	6 37 40.385	+ 3.3043	− 1	+ 9 57 10.13	−3.289	− 7
254	ε Geminor.	3.18	G 5	6 40 14.446	+ 3.6915	− 5	+25 11 32.31	−3.519	− 15
256	ξ Geminor.	3.40	F 5	6 41 55.292	+ 3.3675	− 80	+12 57 42.87	−3.843	− 195
255	[ψ⁵ Aurigae]	5.34	G o	6 42 24.957	+ 4.3254	− 1	+43 38 21.28	−3.529	+ 162
257	*α Canis maj.	−1.58	A o	6 42 30.294	+ 2.6435	−373	−16 37 57.14	−4.909	−1211
258	18 Monocer.	4.70	K o	6 44 43.888	+ 3.1284	− 14	+ 2 28 45.65	−3.903	− 13
264	[ζ Mensae]	5.64	A 2	6 45 4.526	− 4.9788	− 24	−80 45 9.76	−3.854	+ 59
259	[43 Camelop.]	5.13	B 5	6 47 14.698	+ 6.4734	+ 2	+68 57 40.10	−4.103	+ 4
262	α Pictoris	3.30	A 5	6 47 34.544	+ 0.6158	−108	−61 52 35.48	−3.862	+ 269
263	[τ Puppis]	2.83	K o	6 48 26.758	+ 1.4884	+ 26	−50 32 32.47	−4.279	− 72
261	ϑ Geminor.	3.64	A 2	6 48 50.126	+ 3.9550	− 1	+34 2 7.73	−4.294	− 52
260	[24 H. Camel.]	4.75	K 5	6 51 20.700	+ 8.7625	+210	+77 3 29.01	−4.470	− 12
266	ϑ Canis maj.	4.25	K 2	6 51 24.081	+ 2.7876	− 95	−11 57 43.66	−4.474	− 14
265	†15 Lyncis *m*	4.54	G o	6 52 5.165	+ 5.1970	− 7	+58 30 13.79	−4.657	− 137
267	[ι Volantis]	5.52	B 8	6 52 8.504	− 0.6850	− 10	−70 53 20.37	−4.501	+ 20
268	ε Canis maj.	1.63	B 1	6 56 16.013	+ 2.3583	+ 4	−28 53 21.37	−4.871	+ 2
270	[o² Canis maj.]	3.12	B 5 p	7 0 31.094	+ 2.5055	− 1	−23 44 39.93	−5.232	+ 2
269	*ζ Geminor.	var.	G o p	7 0 33.041	+ 3.5587	− 7	+20 39 36.07	−5.240	− 3
271	γ Canis maj.	4.07	B 5	7 1 2.584	+ 2.7147	+ 1	−15 32 35.84	−5.287	− 9
272	[27 G. Carinae]	5.30	A o	7 3 11.174	+ 1.1176	− 12	−56 39 28.84	−5.455	+ 2
273	δ Canis maj.	1.98	F 8 p	7 5 57.045	+ 2.4396	− 3	−26 17 48.28	−5.685	+ 5
274	63 Aurigae	5.07	K 2	7 7 31.837	+ 4.1276	+ 36	+39 25 13.17	−5.826	− 2
275	[*J* Puppis]	4.47	F o	7 10 50.907	+ 1.7101	−142	−46 39 29.91	−6.001	+ 98
276	[64 Aurigae]	5.75	A 3	7 13 52.045	+ 4.1728	− 16	+40 59 30.81	−6.340	+ 11
277	λ Geminor.	3.65	A 2	7 14 38.716	+ 3.4481	− 35	+16 39 0.90	−6.454	− 39
278	π Puppis	2.74	K 5	7 15 1.366	+ 2.1192	− 8	−36 59 18.98	−6.437	+ 9
279	δ Geminor.	3.51	F o	7 16 32.434	+ 3.5836	− 19	+22 5 40.17	−6.586	− 41

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8.
Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Volet, Bull. Astr. II, Bd. 7, 1931.

1940.0	$\Delta\alpha = -0^s.002$	$\Delta\delta = -1''.21$
1941.0	$= +0.018$	$= -0.93$

Nr. 269. Größe: Max. 3.7, Min. 4.3.

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0"001
		m		h m s	s		° ' "	"	
281	δ Volantis	4.02	F 5	7 16 51.944	−0.0275	− 12	−67 50 50.62	− 6.599	− 2
280	19 Lyncis *sq*	5.61	B 8	7 17 58.696	+4.8978	− 8	+55 23 48.14	− 6.727	− 35
283	[η Can. maj.]	2.43	B 5 p	7 21 43.240	+2.3732	− 5	−29 11 5.81	− 6.993	+ 6
282	ι Geminor.	3.89	K o	7 22 0.109	+3.7270	− 92	+27 55 8.52	− 7.111	− 89
285	β Canis min.	3.09	B 8	7 23 53.819	+3.2538	− 38	+ 8 24 42.29	− 7.217	− 40
284	Grb 1308 Caml	5.80	K o	7 24 39.224	+6.2487	− 22	+68 35 27.99	− 7.280	− 40
286	ρ Geminor.	4.18	F o	7 25 15.251	+3.8596	+116	+31 54 19.85	− 7.116	+ 172
287	*α Geminor.	2.85 1.99	A o	7 30 46.370	+3.8302	−138	+32 1 17.98	− 7.839	− 103
288	[108 G. Pupp.]	4.52	F 8	7 31 28.970	+2.5677	− 38	−22 9 55.48	− 7.757	+ 35
289	25 Monocer.	5.17	F 5	7 34 17.659	+2.9829	− 51	− 3 58 32.44	− 8.002	+ 16
290	[127 G. Puppis]	4.62	B 8	7 35 8.793	+2.2195	− 27	−34 49 56.76	− 8.068	+ 18
291	*α Canis min.	0.48	F 5	7 36 9.708	+3.1406	−473	+ 5 22 48.75	− 9.197	−1030
292	24 Lyncis	4.96	A 2	7 37 56.429	+5.0797	− 53	+58 51 10.91	− 8.364	− 54
293	[26 α Monocer.]	4.07	K o	7 38 22.801	+2.8667	− 51	− 9 24 35.70	− 8.368	− 24
294	κ Geminor.	3.68	G 5	7 40 49.637	+3.6228	− 23	+24 32 36.73	− 8.592	− 54
295	β Geminor.	1.21	K o	7 41 38.802	+3.6720	−475	+28 10 21.84	− 8.656	− 53
297	ζ Volantis	3.89	K o	7 42 34.314	−0.7332	+ 58	−72 27 44.08	− 8.656	+ 18
296	π Geminor.	5.29	K 2	7 43 38.443	+3.8695	− 9	+33 33 52.79	− 8.792	− 31
298	†[9 Pupp. *m*]	5.34	G o	7 48 59.546	+2.7782	− 45	−13 44 15.42	− 9.522	− 344
301	[213 G. Puppis]	3.76	G 5	7 50 9.168	+2.0619	− 21	−40 25 12.37	− 9.268	0
299	[26 Lyncis]	5.69	K o	7 50 20.943	+4.3704	− 50	+47 43 19.46	− 9.287	− 2
300	Grb 1374 Caml	5.56	K o	7 53 3.190	+7.1957	− 29	+74 4 52.87	− 9.530	− 35
303	χ Carinae	3.60	B 3	7 55 15.148	+1.5253	− 41	−52 49 14.07	− 9.632	+ 29
302	[53 Camelop.]	6.00	A 2 p	7 56 35.647	+5.1272	− 74	+60 29 26.36	− 9.788	− 22
304	[27 Monocer.]	5.06	K o	7 56 44.262	+2.9971	− 43	− 3 30 52.91	− 9.777	− 1
305	χ Geminor.	5.04	K o	7 59 50.144	+3.6856	− 21	+27 57 50.79	−10.058	− 46
306	ζ Puppis	2.27	O d	8 1 28.445	+2.1084	− 30	−39 49 59.27	−10.121	+ 13
307	27 Lyncis	4.87	A 2	8 3 57.146	+4.5156	− 67	+51 40 53.41	−10.332	− 9
308	ρ Puppis	2.88	F 5	8 4 59.271	+2.5553	− 60	−24 7 48.57	−10.348	+ 51
309	γ Velorum	2.22	O a p	8 7 40.960	+1.8492	− 8	−47 9 32.15	−10.594	+ 5
311	20 Puppis	5.05	G 5	8 10 34.441	+2.7576	− 12	−15 36 22.60	−10.819	− 6
310	Br 1147 Caml	5.73	G 5	8 12 3.409	+7.5533	+ 65	+75 56 35.50	−10.910	+ 15
312	β Cancri	3.76	K 2	8 13 15.735	+3.2540	− 34	+ 9 22 18.56	−11.062	− 51
313	[289 G. Puppis]	4.43	A 5	8 16 18.475	+2.2455	− 94	−36 28 20.72	−11.141	+ 91
314	31 Lyncis	4.43	K 5	8 18 44.071	+4.1098	− 16	+43 22 56.03	−11.512	− 104
315	ε Carinae	1.74	K o + B	8 21 17.042	+1.2320	− 37	−59 18 56.98	−11.571	+ 18
318	ϑ Chamael.	4.26	K o	8 22 28.794	−1.7830	−386	−77 17 29.66	−11.634	+ 38
316	Br 1197 Hydra	3.95	A o	8 22 39.740	+2.9981	− 46	− 3 42 34.12	−11.714	− 26
319	[β Volantis]	3.65	K o	8 25 5.443	+0.6562	− 43	−65 56 10.64	−12.018	− 160
317	ο Ursae maj.	3.47	G o	8 25 17.741	+4.9901	−185	+60 55 14.65	−11.987	− 112

Nr. 287. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sterns beträgt nach den Elementen von Rabe, Astron. Nachr. Bd. 216, 1922:

$$1940.0 \quad \Delta\alpha = +0^{s}.028 \qquad \Delta\delta = +1''.14$$
$$1941.0 \quad = +0.024 \qquad = +1.08$$

Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Jones, Monthly Notices Bd. 88, 1928:

$$1940.0 \quad \Delta\alpha = +0^{s}.034 \qquad \Delta\delta = -1''.08$$
$$1941.0 \quad = +0.028 \qquad = -1.13$$

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″001
		m		h m s	s		° ′ ″	″	
320	Grb 1450 Lynx	6.05	K 0	8 29 1.280	+3.9020	− 86	+38 13 25.31	−12.308	−173
321	η Cancri	5.52	K 0	8 29 14.458	+3.4700	− 35	+20 38 46.81	−12.200	− 49
322	[Grb 1446 Caml]	6.29	K 0	8 33 4.988	+6.6877	− 50	+73 50 31.12	−12.522	−104
323	[Grb 1460 UMaj]	6.03	K 0	8 34 51.489	+4.4487	− 39	+52 55 24.62	−12.575	− 37
324	[48 G. Velorum]	4.13	A 5	8 35 31.947	+2.1089	− 17	−42 46 41.82	−12.576	+ 7
325	[6 Hydrae]	5.15	K 2	8 37 10.850	+2.8423	− 60	−12 15 43.92	−12.701	− 6
327	α Pyxidis	3.70	B 2	8 41 10.784	+2.4108	− 13	−32 58 8.85	−12.954	+ 9
326	δ Cancri	4.17	K 0	8 41 16.646	+3.4100	− 14	+18 22 34.01	−13.204	−233
330	†δ Velorum *m*	2.01	A 0	8 43 2.798	+1.6570	+ 22	−54 29 16.33	−13.164	− 76
328	ι Cancri	6.61 4.20	A 5 G 5	8 43 4.207	+3.6317	− 19	+28 58 50.75	−13.135	− 45
331	[η Chamael.]	5.62	B 9	8 43 24.919	−2.0155	− 78	−78 44 46.94	−13.089	+ 20
329	†[ε Hydrae *m*]	3.48	F 8	8 43 35.978	+3.1777	− 130	+ 6 38 24.37	−13.179	− 55
332	[γ Pyxidis]	4.19	K 2	8 47 59.044	+2.5464	− 101	−27 29 11.18	−13.331	+ 81
333	†[σ² Canc. *m*]	5.60	K 0	8 50 35.280	+3.6618	+ 28	+30 48 28.55	−13.605	− 24
334	ζ Hydrae	3.30	K 0	8 52 13.373	+3.1717	− 69	+ 6 10 30.11	−13.676	+ 10
336	108 G. Carinae	3.98	B 8	8 53 41.345	+1.3611	− 25	−60 24 53.33	−13.737	+ 41
335	ι Ursae maj.	3.12	A 5	8 55 6.535	+4.1106	− 443	+48 16 43.08	−14.110	−241
337	α Cancri	4.27	A 3	8 55 12.431	+3.2818	+ 22	+12 5 28.27	−13.909	− 34
339	Br 1268 Lynx	4.09	F 5	8 56 45.117	+3.8968	− 395	+42 1 18.04	−14.230	−258
338	[ρ Ursae maj.]	4.99	M 0	8 57 9.788	+5.4193	− 45	+67 51 55.25	−13.983	+ 16
341	ϰ Ursae maj.	3.68	A 0	8 59 32.282	+4.0988	− 35	+47 23 43.01	−14.204	− 58
340	[Grb 1501 UMaj]	5.68	A 2	8 59 37.348	+4.3993	− 14	+54 31 18.73	−14.153	− 1
343	α Volantis	4.18	A 5	9 1 30.312	+0.9503	+ 11	−66 9 22.36	−14.367	−101
342	[97 G. Velorum]	3.69	K 0	9 2 4.974	+2.0684	− 57	−46 51 29.13	−14.317	− 15
344	†σ² Ursae maj.	4.87	F 8	9 5 8.293	+5.2843	− 44	+67 22 47.53	−14.567	− 78
345	λ Velorum	2.22	K 5	9 5 47.215	+2.2064	− 25	−43 11 22.13	−14.512	+ 15
346	[36 Lyncis]	5.30	B 8	9 9 53.214	+3.9263	− 27	+43 27 59.10	−14.811	− 39
347	ϑ Hydrae	3.84	A 0	9 11 14.603	+3.1219	+ 86	+ 2 34 6.34	−15.166	−314
348	β Carinae	1.80	A 0	9 12 33.074	+0.6637	− 280	−69 28 11.27	−14.825	+103
349	†[38 Lyncis]	3.82	A 2	9 15 6.996	+3.7352	− 26	+37 3 27.71	−15.207	−130
351	[ι Carinae]	2.25	F 0	9 15 29.049	+1.6067	− 23	−59 1 22.63	−15.093	+ 5
350	*83 Cancri	6.60	F 5	9 15 38.070	+3.3490	− 87	+17 57 38.76	−15.242	−135
352	α Lyncis	3.30	K 5	9 17 24.314	+3.6564	− 181	+34 38 50.72	−15.196	+ 13
353	ϰ Velorum	2.63	B 3	9 20 15.253	+1.8580	− 12	−54 45 13.50	−15.360	+ 10
354	α Hydrae	2.16	K 2	9 24 38.312	+2.9484	− 10	− 8 23 51.56	−15.586	+ 27
356	[ε Antliae]	4.64	K 2	9 26 45.987	+2.4760	− 22	−35 41 17.47	−15.739	− 10
355	23 Ursae maj.	3.75	F 0	9 26 49.211	+4.7364	+ 156	+63 19 32.36	−15.707	+ 25
359	†ψ Velorum *m*	3.64	F 5	9 28 20.053	+2.3625	− 167	−40 12 11.60	−15.743	+ 71
358	ϑ Ursae maj.	3.26	F 8 p	9 28 51.343	+4.0158	−1031	+51 57 7.10	−16.385	−543
357	24 Ursae maj.	4.57	G 0	9 29 12.698	+5.3154	− 135	+70 5 44.49	−15.786	+ 75

Nr. 350. Größe aus Harvard 54 entnommen.

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
361	[N Velorum]	3.04	K 5	9 29 23.835	+1.8230	— 42	—56 46 8.64	—15.868	+ 2
360	10 Leon. min.	4.62	G 5	9 30 33.208	+3.6770	+ 4	+36 39 54.00	—15.962	— 29
362	[H Carinae]	5.52	K 2	9 31 10.181	+0.4569	— 32	—72 48 52.80	—15.972	— 8
363	[Grb 1564 UMaj]	5.74	K 0	9 37 8.646	+5.1458	—141	+69 30 43.39	—16.350	— 74
364	[κ Hydrae]	4.96	B 3	9 37 25.712	+2.8761	— 20	—14 3 33.36	—16.314	— 24
365	[o Leonis]	3.76	F 5 + A 3	9 37 56.986	+3.2025	— 98	+10 9 58.38	—16.355	— 39
366	ϑ Antliae	4.98	F 5 p	9 41 31.493	+2.6743	— 38	—27 29 38.52	—16.466	+ 30
367	ε Leonis	3.12	G 0 p	9 42 26.935	+3.4064	— 35	+24 3 5.23	—16.558	— 17
369	†υ Carinae	3.15 6.03	F 0	9 45 36.174	+1.5012	— 10	—64 47 35.16	—16.687	+ 9
368	υ Ursae maj.	3.89	F 0	9 46 44.400	+4.2712	—386	+59 19 19.55	—16.908	—157
370	6 Sextantis	6.00	A 2	9 48 12.588	+3.0232	+ 5	— 3 57 40.89	—16.854	— 33
371	[μ Leonis]	4.10	K 0	9 49 21.304	+3.4131	—162	+26 17 25.54	—16.936	— 60
373	[183 G. Hydrae]	5.16	M 0	9 52 2.314	+2.8301	— 31	—18 43 27.80	—17.048	— 47
372	Grb 1586 UMaj	5.96	K 0	9 53 3.799	+5.3767	—184	+73 9 58.12	—17.092	— 43
374	[19 Leon. min.]	5.19	F 5	9 54 1.005	+3.6764	—107	+41 20 32.18	—17.122	— 30
375	[φ Velorum]	3.70	B 5	9 54 45.166	+2.1058	— 16	—54 16 53.24	—17.114	+ 11
377	[η Antliae]	5.25	F 0	9 56 17.603	+2.5733	— 81	—35 36 11.30	—17.219	— 25
376	[12 Sextantis]	6.63	A 5	9 56 36.347	+3.1121	— 49	+ 3 40 20.49	—17.191	+ 18
378	π Leonis	4.89	M 0	9 57 2.627	+3.1708	— 23	+ 8 19 58.37	—17.255	— 27
379	η Leonis	3.58	A 0 p	10 4 3.815	+3.2713	— 4	+17 3 21.63	—17.540	— 6
380	α Leonis	1.34	B 8	10 5 10.702	+3.1956	—169	+12 15 40.36	—17.579	+ 2
381	λ Hydrae	3.83	K 0	10 7 39.704	+2.9250	—138	—12 3 24.60	—17.778	— 93
382	191 G. Velorum	4.09	A 2	10 12 12.801	+2.5176	—136	—41 49 26.70	—17.828	+ 40
385	[ω Carinae]	3.56	B 8	10 12 18.833	+1.4295	— 45	—69 44 22.63	—17.870	+ 2
384	ζ Leonis	3.65	F 0	10 13 21.380	+3.3375	+ 11	+23 43 1.28	—17.926	— 12
383	λ Ursae maj.	3.52	A 2	10 13 29.160	+3.6204	—152	+43 12 53.18	—17.963	— 45
386	μ Ursae maj.	3.21	K 5	10 18 45.719	+3.5762	— 75	+41 48 7.24	—18.092	+ 29
387	30 H. Urs. maj.	4.92	A 0	10 19 49.711	+4.3329	— 24	+65 52 14.44	—18.185	— 25
388	[25 Sextantis]	6.10	B 9	10 20 24.470	+3.0323	— 37	— 3 46 12.59	—18.181	0
389	μ Hydrae	4.06	K 5	10 23 11.199	+2.9016	— 89	—16 31 45.84	—18.366	— 84
391	J Carinae	4.08	F 5	10 23 12.615	+1.1939	— 29	—73 43 33.47	—18.309	— 26
392	α Antliae	4.42	K 5	10 24 24.192	+2.7452	— 57	—30 45 41.76	—18.311	+ 15
390	β Leon. min.	4.41	K 0	10 24 25.182	+3.4709	—102	+37 0 55.14	—18.435	—109
393	196 G. Carinae	4.08	F 0	10 25 40.285	+2.2011	— 20	—58 25 57.27	—18.375	— 5
394	36 Ursae maj.	4.84	F 5	10 26 48.018	+3.8431	—218	+56 17 20.25	—18.445	— 35
396	[ρ Leonis]	3.85	B 0 p	10 29 39.173	+3.1594	— 6	+ 9 36 57.40	—18.513	— 6
397	[203 G. Carinae]	3.58	B 5 p	10 29 53.145	+2.1324	— 27	—61 22 34.36	—18.505	+ 9
395	9 H. Dracon.	5.04	G 5	10 30 2.961	+5.1157	— 96	+76 1 22.60	—18.530	— 9
399	[44 Hydrae]	5.32	K 2	10 31 9.481	+2.8534	— 7	—23 26 7.50	—18.539	+ 18
398	[37 Ursae maj.]	5.16	F 0	10 31 18.664	+3.8688	+ 78	+57 23 32.50	—18.528	+ 34

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
400	†*[222 G. Velor. *m*]	4.06	F 2 + A 3	10 34 46.483	+2.5199	−157	−47 54 48.59	−18.693	− 19
401	[γ Chamael.]	4.10	M o	10 34 46.514	+0.7165	−125	−78 17 46.93	−18.654	+ 20
402	[225 G. Velorum]	4.37	G o	10 36 54.793	+2.3870	− 21	−55 17 25.23	−18.743	− 2
404	33 Sextantis	6.40	K o	10 38 21.007	+3.0521	− 94	− 1 25 32.32	−18.911	−125
403	[35 H. Urs. maj.]	5.23	K o	10 38 48.021	+4.3044	− 8	+69 23 26.59	−18.817	− 17
405	[41 Leon. min.]	5.05	A 2	10 40 9.395	+3.2629	− 85	+23 30 10.98	−18.835	+ 5
406	ϑ Carinae	3.03	B o	10 40 48.670	+2.1396	− 24	−64 4 46.58	−18.847	+ 12
407	42 Leon. min.	5.37	B 9	10 42 31.970	+3.3371	− 21	+30 59 55.89	−18.951	− 41
408	†μ Velorum	2.84	G 5	10 44 11.009	+2.5794	+ 73	−49 6 9.44	−19.006	− 49
411	[δ² Chamael.]	4.62	B 3	10 45 14.572	+0.5722	−153	−80 13 25.14	−18.985	+ 2
409	53 Leonis	5.27	A o	10 46 6.259	+3.1539	− 4	+10 51 47.46	−19.039	− 28
410	[ν Hydrae]	3.32	K o	10 46 39.740	+2.9602	+ 67	−15 52 45.17	−18.832	+195
412	[46 Leon. min.]	3.92	K o	10 49 57.678	+3.3566	+ 70	+34 32 19.61	−19.400	−285
414	[ι Antliae]	4.70	K o	10 53 55.020	+2.7954	+ 67	−36 48 53.26	−19.349	−132
413	[Br 1508 Drac]	6.26	G 5	10 55 12.746	+4.8148	−247	+78 5 31.72	−19.280	− 31
415	239 G. Velorum	4.56	A 2	10 57 23.736	+2.7514	+ 17	−41 54 13.39	−19.305	− 4
416	β Ursae maj.	2.44	A o	10 58 14.023	+3.6242	+ 97	+56 42 16.04	−19.293	+ 27
417	α Ursae maj.	1.95	K o	11 0 2.493	+3.7074	−174	+62 4 31.19	−19.433	− 71
418	χ Leonis	4.66	F o	11 1 55.347	+3.0950	−231	+ 7 39 38.73	−19.453	− 49
419	[χ¹ Hydrae]	5.06	F 5	11 2 26.239	+2.8899	−143	−26 58 9.57	−19.419	− 4
420	ψ Ursae maj.	3.15	K o	11 6 17.854	+3.3751	− 62	+44 49 28.00	−19.527	− 31
421	β Crateris	4.52	A 2	11 8 42.226	+2.9506	+ 3	−22 29 52.54	−19.647	−103
422	δ Leonis	2.58	A 3	11 10 55.179	+3.1914	+102	+20 51 9.88	−19.722	−136
423	ϑ Leonis	3.41	A o	11 11 5.580	+3.1486	− 43	+15 45 28.16	−19.671	− 82
424	[Grb 1757 UMaj]	5.97	K o	11 13 19.469	+3.3833	− 94	+49 48 14.51	−19.645	− 15
425	ν Ursae maj.	3.71	K o	11 15 14.534	+3.2418	− 23	+33 25 19.03	−19.641	+ 22
426	δ Crateris	3.82	K o	11 16 20.301	+2.9994	− 85	−14 27 12.92	−19.482	+200
427	σ Leonis	4.13	A o	11 18 2.551	+3.0938	− 64	+ 6 21 30.42	−19.722	− 13
428	π Centauri	4.26	B 5	11 18 15.794	+2.7351	− 31	−54 9 42.91	−19.716	− 4
429	Grb 1771 UMaj	5.98	A o	11 19 18.404	+3.5698	− 13	+64 39 32.73	−19.700	+ 29
430	†[ι Leonis]	4.03	F 5	11 20 47.851	+3.1280	+113	+10 51 35.87	−19.830	− 79
431	[γ Crateris]	4.14	A 5	11 21 52.880	+2.9971	− 69	−17 21 15.28	−19.769	− 2
432	[58 Ursae maj.]	5.88	F 8	11 27 16.672	+3.2481	− 53	+43 30 9.98	−19.764	+ 76
433	λ Draconis	4.06	M o	11 27 51.887	+3.5686	− 78	+69 39 44.81	−19.867	− 20
434	ξ Hydrae	3.72	G 5	11 30 2.757	+2.9503	−160	−31 31 31.25	−19.910	− 38
436	λ Centauri	3.34	B 9	11 33 0.167	+2.7639	− 53	−62 41 15.34	−19.910	− 5
435	[C² Centauri]	5.42	F o	11 33 0.602	+2.9059	+ 28	−47 18 31.47	−19.956	− 51
437	υ Leonis	4.47	K o	11 33 52.535	+3.0719	+ 2	− 0 29 32.37	−19.875	+ 39
438	[π Chamael.]	5.74	F o	11 34 46.315	+2.4715	−318	−75 33 50.67	−19.915	+ 7
439	[o Hydrae]	4.88	B 8	11 37 13.659	+2.9794	− 30	−34 24 42.81	−19.942	+ 3

Nr. 400. Doppelstern, Größe der Komponenten: 4.5 und 5.0.

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
440	3 Draconis	5.48	K o	11 39 8.578	+3.3515	− 83	+67 4 37.51	−19.926	+ 34
442	[λ Muscae]	3.80	A 5	11 42 45.752	+2.8288	−148	−66 23 45.62	−19.957	+ 30
441	χ Ursae maj.	3.85	K o	11 42 53.340	+3.1702	−139	+48 6 43.79	−19.964	+ 23
443	[65 G. Centauri]	4.22	G o	11 43 35.923	+2.8979	− 42	−60 50 40.79	−20.011	− 19
444	β Leonis	2.23	A 2	11 46 0.006	+3.0605	−343	+14 54 27.01	−20.125	−119
445	β Virginis	3.80	F 8	11 47 34.134	+3.1251	+494	+ 2 6 10.47	−20.289	−275
446	[*B* Centauri]	4.71	K o	11 48 8.176	+2.9957	− 88	−44 50 22.94	−20.046	− 29
447	γ Ursae maj.	2.54	A o	11 50 40.993	+3.1582	+104	+54 1 42.18	−20.021	+ 6
448	†[ε Chamael. *m*]	5.05	B 9	11 56 37.042	+2.9681	−139	−77 53 15.43	−20.042	− 1
449	[88 G. Centauri]	5.28	F o	12 0 32.633	+3.1053	+292	−42 5 53.01	−20.163	−120
450	o Virginis	4.24	G 5	12 2 9.147	+3.0562	−149	+ 9 3 58.40	−19.997	+ 45
451	[Grb 1852 Caml]	5.96	K o	12 2 13.707	+3.0591	+439	+77 14 28.09	−20.142	−100
452	δ Centauri	2.88	B 3 p	12 5 14.357	+3.1069	− 33	−50 23 17.71	−20.049	− 10
453	ε Corvi	3.21	K o	12 7 2.067	+3.0851	− 49	−22 17 9.95	−20.024	+ 10
454	Br 1634 Caml	5.12	A 5	12 9 24.671	+2.8178	+ 22	+77 56 58.32	−20.008	+ 19
455	[δ Crucis]	3.08	B 3	12 11 56.771	+3.1822	− 44	−58 24 54.36	−20.022	− 6
456	δ Ursae maj.	3.44	A 2	12 12 27.869	+2.9720	+125	+57 21 57.01	−20.011	+ 3
457	[γ Corvi]	2.78	B 8	12 12 42.992	+3.0850	−111	−17 12 32.02	−19.996	+ 16
458	[2 Can. ven.]	5.80	K 5	12 13 7.400	+3.0079	+ 14	+40 59 38.48	−20.049	− 39
459	β Chamael.	4.38	B 5	12 14 47.054	+3.5033	−133	−78 58 44.88	−19.986	+ 16
460	η Virginis	4.00	A o	12 16 50.067	+3.0694	− 42	− 0 20 0.57	−20.012	− 22
461	[6 Can. ven.]	5.22	K o	12 22 53.789	+2.9567	− 70	+39 21 4.52	−19.983	− 40
462	α Crucis *m*	1.58 2.09	B 1	12 23 15.000	+3.3325	− 39	−62 46 0.94	−19.952	− 12
463	[323 G. Hydr.]	5.68	A o	12 23 41.567	+3.1604	− 6	−32 29 51.18	−19.966	− 30
464	[σ Centauri]	4.16	B 3	12 24 47.093	+3.2421	− 25	−49 53 54.62	−19.947	− 21
466	20 Comae	5.72	A 2	12 26 42.433	+3.0144	+ 17	+21 13 41.41	−19.942	− 34
465	δ Corvi	3.11	A o	12 26 45.342	+3.1037	−146	−16 10 53.70	−20.050	−143
467	[74 Ursae maj.]	5.44	A 5	12 27 9.607	+2.8040	− 87	+58 44 8.40	−19.814	+ 88
468	[γ Crucis]	1.61	M 3	12 27 49.467	+3.3243	+ 38	−56 46 38.53	−20.159	−264
469	[γ Muscae]	4.04	B 5	12 28 51.424	+3.5750	− 92	−71 48 6.14	−19.890	− 6
470	β Can. ven.	4.32	G o	12 30 53.800	+2.8500	−631	+41 40 59.82	−19.574	+287
472	κ Draconis	3.88	B 5 p	12 30 55.924	+2.5639	−118	+70 7 7.46	−19.853	+ 8
471	β Corvi	2.84	G 5	12 31 13.833	+3.1509	+ 4	−23 3 54.50	−19.915	− 57
473	24 Comae *sq*	5.18	K o	12 32 7.218	+3.0095	− 4	+18 42 25.66	−19.826	+ 20
474	α Muscae	2.94	B 3	12 33 34.976	+3.5704	− 64	−68 48 18.31	−19.841	− 13
475	[χ Virginis]	4.78	K o	12 36 8.784	+3.0962	− 52	− 7 39 56.36	−19.827	− 33
476	†γ Centauri *m*	2.38	A o	12 38 11.812	+3.3059	−192	−48 37 49.52	−19.772	− 6
477	†[γ Virg. *m*]	3.65 3.68	F o F o	12 38 37.056	+3.0397	−378	− 1 7 14.12	−19.751	+ 8
478	76 Ursae maj.	5.92	A o	12 38 57.023	+2.6230	− 56	+63 2 31.76	−19.776	− 22
479	[330 G. Hydr.]	5.73	K 2	12 40 48.246	+3.1963	− 27	−27 59 41.58	−19.765	− 38

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
480	†[β Muscae *m*]	3.26	B 3	12 42 34.735	+3.6728	− 51	−67 46 47.89	−19.720	− 22
481	β Crucis	1.50	B 1	12 44 12.003	+3.5012	− 47	−59 21 39.52	−19.685	− 14
482	150 G. Centauri	4.34	A 5	12 50 6.295	+3.3210	+ 58	−39 51 10.31	−19.591	− 25
483	ε Ursae maj.	1.68	A o p	12 51 23.696	+2.6411	+134	+56 17 6.73	−19.550	− 9
484	δ Virginis	3.66	M o	12 52 34.765	+3.0219	−314	+ 3 43 23.29	−19.575	− 57
486	8 Draconis	5.27	F o	12 53 5.556	+2.3900	− 15	+65 45 48.95	−19.543	− 36
485	α Can. ven. *sq*	2.90	A o p	12 53 13.417	+2.8070	−201	+38 38 31.23	−19.454	+ 50
487	[δ Muscae]	3.63	K 2	12 58 6.786	+4.1170	+570	−71 13 32.85	−19.432	− 31
488	ε Virginis	2.95	K o	12 59 11.350	+2.9864	−186	+11 16 52.48	−19.359	+ 19
489	[ξ² Centauri]	4.40	B 3	13 3 23.724	+3.4987	− 32	−49 35 6.94	−19.292	− 11
490	ϑ Virginis	4.44	A o	13 6 50.410	+3.1059	− 23	− 5 13 8.79	−19.231	− 35
491	[17 Can. ven.]	6.04	F o	13 7 18.007	+2.7554	− 64	+38 49 2.46	−19.147	+ 38
492	β Comae	4.32	G o	13 9 4.452	+2.8001	−604	+28 10 54.46	−18.263	+877
493	[η Muscae]	4.95	B 8	13 11 9.355	+4.0574	− 57	−67 34 37.84	−19.100	− 16
494	[20 Can. ven.]	4.66	F o	13 14 51.256	+2.6908	−110	+40 53 16.89	−18.965	+ 18
495	γ Hydrae	3.33	G 5	13 15 39.271	+3.2611	+ 53	−22 51 19.91	−19.009	− 49
496	ι Centauri	2.91	A 2	13 17 12.956	+3.3708	−281	−36 23 46.78	−19.003	− 87
497	ζ Urs. maj. *pr*	2.40	A 2 p	13 21 30.758	+2.4166	+140	+55 14 17.60	−18.814	− 25
498	α Virginis	1.21	B 2	13 22 1.703	+3.1602	− 26	−10 50 55.41	−18.806	− 33
499	Grb 2001 UMin	6.07	K 5	13 24 36.067	+1.5288	+ 39	+72 42 9.77	−18.706	− 13
500	69 H. Urs. maj.	5.41	A o	13 26 15.093	+2.2026	−110	+60 15 18.76	−18.607	+ 33
501	ζ Virginis	3.44	A 2	13 31 37.990	+3.0568	−190	− 0 17 23.38	−18.426	+ 36
502	17 H. Can. ven.	4.96	F o	13 32 7.129	+2.6789	+ 68	+37 29 21.24	−18.457	− 12
503	[49 G. Chamael.]	6.44	A o	13 34 0.739	+5.1136	− 35	−75 22 43.50	−18.393	− 15
505	[Grb 2029 UMin]	5.67	K o	13 35 44.240	+1.4396	− 89	+71 32 50.03	−18.325	− 5
504	ε Centauri	2.56	B 1	13 36 4.326	+3.7972	− 22	−53 9 43.03	−18.321	− 14
506	[1 Centauri]	4.36	F 5	13 42 16.230	+3.4078	−363	−32 44 27.63	−18.229	−150
507	τ Bootis	4.51	F 5	13 44 24.598	+2.8510	−338	+17 45 18.40	−17.964	+ 34
509	η Ursae maj.	1.91	B 3	13 45 10.668	+2.3646	−126	+49 36 43.89	−17.983	− 14
508	[μ Centauri]	3.32	B 2 p	13 45 59.519	+3.6115	− 19	−42 10 31.96	−17.961	− 24
510	89 Virginis	5.11	K o	13 46 36.371	+3.2591	− 70	−17 50 9.81	−17.956	− 43
511	[10 Draconis]	4.77	M o	13 49 40.701	+1.7519	− 4	+65 1 8.92	−17.800	− 9
512	ζ Centauri	3.06	B 2 p	13 51 47.093	+3.7392	− 55	−46 59 37.37	−17.746	− 42
513	η Bootis	2.80	G o	13 51 49.609	+2.8567	− 44	+18 41 51.89	−18.066	−362
514	[294 G. Cent.]	4.68	K o	13 53 17.008	+4.3342	− 49	−63 23 36.49	−17.674	− 31
515	[47 Hydrae]	5.17	B 8	13 55 8.779	+3.3657	− 32	−24 40 48.27	−17.593	− 28
517	11 Bootis	6.12	A 3	13 58 27.204	+2.7205	− 63	+27 40 32.37	−17.412	+ 12
516	τ Virginis	4.34	A 2	13 58 35.410	+3.0531	+ 11	+ 1 50 2.81	−17.442	− 24
518	β Centauri	0.86	B 1	13 59 34.197	+4.2284	− 25	−60 5 4.08	−17.395	− 20
521	α Draconis	3.64	A o p	14 2 45.720	+1.6239	− 89	+64 39 43.65	−17.222	+ 13

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
519	[π Hydrae]	3.48	K o	14 2 56.881	+3.4155	+ 34	−26 23 38.94	−17.370	− 144
520	ϑ Centauri	2.26	K o	14 3 8.573	+3.5288	− 427	−36 4 32.30	−17.740	− 522
522	12 *d* Bootis	4.82	F 5	14 7 39.704	+2.7362	− 18	+25 22 30.50	−17.077	− 64
524	4 Ursae min.	5.00	K o	14 9 2.928	−0.2444	− 108	+77 49 45.88	−16.921	+ 28
523	ϰ Virginis	4.31	K o	14 9 41.448	+3.1999	+ 5	− 9 59 43.19	−16.782	+ 135
525	ι Virginis	4.16	F 5	14 12 51.877	+3.1457	− 7	− 5 42 54.13	−17.195	− 428
526	α Bootis	0.24	K o	14 12 55.397	+2.7363	− 776	+19 29 38.52	−18.762	−1997
528	[ι Bootis]	4.78	A 5	14 14 2.435	+2.1245	− 163	+51 38 36.18	−16.622	+ 89
527	λ Bootis	4.26	A o	14 14 6.172	+2.2809	− 182	+46 21 47.36	−16.550	+ 158
529	[υ Centauri]	4.41	B 5	14 16 7.018	+4.1845	− 22	−56 6 40.19	−16.623	− 14
530	[10 G. Circini]	5.71	A 2 p	14 20 5.865	+4.9624	− 23	−67 55 25.68	−16.426	− 14
531	ϑ Bootis	4.06	F 8	14 23 9.195	+2.0422	− 261	+52 7 38.78	−16.659	− 401
532	[52 Hydrae]	5.00	B 8	14 24 39.133	+3.5124	− 18	−29 13 22.84	−16.206	− 26
533	[φ Virginis]	4.97	K o	14 25 6.455	+3.0910	− 92	− 1 57 35.74	−16.161	− 4
534	ρ Bootis	3.78	K o	14 29 14.593	+2.5855	− 79	+30 38 2.30	−15.824	+ 117
535	γ Bootis	3.00	F o	14 29 39.685	+2.4158	− 98	+38 34 11.72	−15.769	+ 149
536	[Grb 2125 Drac]	6.18	F o	14 30 4.896	+1.6281	− 72	+60 29 21.91	−15.882	+ 14
537	η Centauri	2.65	B 3 p + A 2 p	14 31 41.220	+3.8070	− 30	−41 53 43.40	−15.844	− 35
538	*α Centauri	1.70 0.33	K 5 G o	14 35 30.545	+4.0731	−4882	−60 35 20.51	−14.891	+ 711
540	[33 Bootis]	5.39	A o	14 36 36.197	+2.2325	− 68	+44 39 46.02	−15.562	− 19
539	[α Circini]	3.41	F o	14 37 37.909	+4.8400	− 295	−64 42 55.32	−15.721	− 237
541	[α Lupi]	2.89	B 2	14 37 55.642	+3.9871	− 16	−47 7 54.53	−15.487	− 19
543	†ζ Bootis *m*	4.83 4.43	A 2	14 38 16.893	+2.8647	+ 36	+13 59 5.02	−15.469	− 20
545	μ Virginis	3.95	F 5	14 39 53.666	+3.1614	+ 71	− 5 23 54.30	−15.680	− 322
544	[371 G. Centauri]	4.13	K o	14 39 58.752	+3.6675	− 52	−34 54 59.25	−15.539	− 186
542	α Apodis	3.81	K 5	14 40 18.603	+7.4165	− 9	−78 47 32.52	−15.353	− 21
546	[30 G. Lupi]	5.20	K o	14 42 48.603	+4.1915	− 24	−52 7 51.04	−15.275	− 83
547	109 Virginis	3.76	A o	14 43 12.759	+3.0330	− 74	+ 2 8 40.78	−15.202	− 31
548	α^2 Librae	2.90	A 3	14 47 33.259	+3.3182	− 73	−15 47 36.88	−14.991	− 71
549	Grb 2164 Drac	5.67	K 2	14 49 54.800	+1.5222	− 167	+59 32 14.01	−14.648	+ 134
550	β Ursae min.	2.24	K 5	14 50 51.420	−0.1815	− 84	+74 24 2.71	−14.718	+ 9
551	Pi XIV 221 Boot	5.77	A o	14 53 23.179	+2.8316	− 10	+14 41 15.92	−14.578	− 4
552	β Lupi	2.81	B 2 p	14 54 35.480	+3.9264	− 37	−42 53 36.65	−14.542	− 41
553	[ϰ Centauri]	3.35	B 3	14 55 14.888	+3.9008	− 15	−41 51 52.98	−14.490	− 28
554	[2 H. Urs. min.]	4.86	M 3	14 56 37.268	+0.9518	− 138	+66 10 15.62	−14.354	+ 26
555	β Bootis	3.63	G 5	14 59 41.074	+2.2596	− 40	+40 37 34.88	−14.224	− 33
556	σ Librae	3.41	M 3	15 0 33.130	+3.5105	− 53	−25 2 50.71	−14.185	− 48
557	ψ Bootis	4.67	K o	15 1 52.387	+2.5707	− 133	+27 10 50.23	−14.064	− 9
558	ζ Lupi	3.50	K o	15 7 57.647	+4.3062	− 121	−51 52 20.47	−13.737	− 67
559	[ι Librae]	4.66	A o p	15 8 47.744	+3.4190	− 27	−19 33 57.27	−13.659	− 42

Nr. 538. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sternes beträgt nach den Elementen von Finsen, Union Observ. Circular 68, 1926:

1940.0 $\Delta\alpha = +0.^{s}091$ $\Delta\delta = -2.''38$
1941.0 $= +0.057$ $= -2.73$

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
562	[3 Serpentis]	5.44	K 0	15 12 12.224	+2.9819	− 14	+ 5 9 39.45	−13.395	+ 1
561	[β Circini]	4.16	A 3	15 12 47.918	+4.6914	−126	−58 34 43.64	−13.495	− 138
563	δ Bootis	3.54	K 0	15 13 4.932	+2.4187	+ 66	+33 32 15.56	−13.458	− 118
560	γ Triang. austr.	3.06	A 0	15 13 16.641	+5.5916	−105	−68 27 35.34	−13.352	− 27
564	β Librae	2.74	B 8	15 13 46.447	+3.2279	− 66	− 9 9 45.92	−13.317	− 23
565	1 H. Urs. min.	5.23	G 0	15 13 56.359	+0.6859	+371	+67 34 27.53	−13.676	− 391
566	φ¹ Lupi	3.59	K 5	15 17 59.422	+3.8048	− 79	−36 2 42.30	−13.103	− 87
569	γ Ursae min.	3.14	A 2	15 20 48.321	−0.0999	− 48	+72 2 51.12	−12.811	+ 19
568	μ Bootis *pr*	4.47 6.66	F 0 K 0	15 22 13.336	+2.2664	−124	+37 35 11.86	−12.650	+ 83
570	[τ¹ Serpentis]	5.46	M 0	15 23 0.287	+2.7823	− 12	+15 38 16.25	−12.693	− 14
571	ι Draconis	3.47	K 0	15 23 35.408	+1.3338	− 16	+59 10 32.35	−12.628	+ 13
567	[ϰ¹ Apodis]	5.65	B 5 p	15 24 55.783	+6.5229	+ 15	−73 11 2.54	−12.581	− 34
572	β Coron. bor.	3.72	F 0 p	15 25 21.212	+2.4735	−138	+29 18 41.45	−12.438	+ 82
573	ν¹ Bootis	5.15	K 5	15 28 46.337	+2.1548	+ 7	+41 2 12.23	−12.293	− 7
576	[ϑ Coron. bor.]	4.17	B 5	15 30 30.504	+2.4189	− 19	+31 33 37.99	−12.183	− 18
575	†γ Lupi *m*	2.95	B 3	15 31 8.006	+3.9959	− 13	−40 57 59.58	−12.151	− 30
574	[ε Triang. austr.]	4.11	K 0	15 31 12.218	+5.4819	+ 44	−66 7 2.76	−12.184	− 69
578	α Coron. bor.	2.31	A 0	15 32 8.751	+2.5401	+ 90	+26 54 56.03	−12.142	− 91
577	γ Librae	4.02	K 0	15 32 9.912	+3.3554	+ 43	−14 35 26.97	−12.047	+ 1
579	[υ Librae]	3.78	K 2	15 33 22.545	+3.6413	− 4	−27 56 15.96	−11.966	− 2
580	[φ Bootis]	5.41	G 5	15 35 40.200	+2.1545	+ 52	+40 32 52.17	−11.747	+ 56
581	†[γ Coron. bor.]	3.93	A 0	15 40 13.269	+2.5193	− 80	+26 29 4.55	−11.437	+ 42
582	α Serpentis	2.75	K 0	15 41 18.606	+2.9549	+ 92	+ 6 36 47.33	−11.355	+ 45
583	β Serpentis	3.74	A 2	15 43 24.986	+2.7689	+ 48	+15 36 30.20	−11.297	− 48
587	[12 H. Dracon.]	5.13	A 2	15 45 44.684	+0.9129	+ 48	+62 47 4.33	−11.142	− 61
584	ϰ Serpentis	4.28	K 5	15 46 2.219	+2.7006	− 34	+18 19 32.57	−11.147	− 89
590	ζ Ursae min.	4.34	A 2	15 46 9.314	−2.1564	+ 52	+77 58 47.76	−11.057	− 4
585	μ Serpentis	3.63	A 0	15 46 29.145	+3.1307	− 58	− 3 14 52.66	−11.054	− 28
586	[χ Lupi]	4.11	B 9	15 47 8.332	+3.8108	− 8	−33 26 45.46	−11.010	− 32
588	ε Serpentis	3.75	A 2	15 47 49.343	+2.9904	+ 85	+ 4 39 25.39	−10.865	+ 63
589	β Triang. austr.	3.04	F 0	15 49 50.123	+5.2798	−282	−63 14 51.05	−11.171	− 393
591	[γ Serpentis]	3.86	F 5	15 53 40.755	+2.7710	+212	+15 51 22.27	−11.781	−1287
593	ε Coron. bor.	4.22	K 0	15 55 6.084	+2.4835	− 61	+27 3 1.74	−10.453	− 64
592	[π Scorpii]	3.00	B 2	15 55 13.006	+3.6286	− 6	−25 56 34.24	−10.404	− 25
595	[Grb 2296 Drac]	4.96	A 5	15 56 21.751	+1.4222	−185	+54 55 6.95	−10.189	+ 106
594	δ Scorpii	2.54	B 0	15 56 46.849	+3.5469	− 5	−22 27 8.86	−10.289	− 27
598	ϑ Draconis	4.11	F 8	16 0 45.599	+1.1231	−413	+58 43 29.85	− 9.628	+ 336
597	β Scorpii *pr*	2.90 5.06	B 1	16 1 56.626	+3.4879	− 2	−19 38 33.83	− 9.894	− 22
596	[δ Normae]	4.84	A 3 p	16 2 14.495	+4.2378	+ 4	−45 0 43.62	− 9.818	+ 31
599	[ϑ Lupi]	4.33	B 3	16 2 38.702	+3.9379	− 17	−36 38 26.29	− 9.854	− 36

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
601	[φ Herculis]	4.26	B 9 p	16 6 52.606	+1.8898	— 28	+45 5 28.72	—9.461	+ 35
600	[κ Normae]	5.09	K o	16 8 44.038	+4.7277	— 11	—54 28 38.03	—9.376	— 26
602	[δ Triang. austr.]	4.03	G o	16 9 57.513	+5.4551	+ 10	—63 32 4.78	—9.269	— 15
603	δ Ophiuchi	3.03	M o	16 11 11.889	+3.1436	— 31	— 3 32 28.61	—9.305	—146
606	19 Ursae min.	5.51	B 8	16 12 30.316	—1.7188	— 15	+76 1 45.92	—9.048	+ 13
605	ε Ophiuchi	3.34	K o	16 15 8.606	+3.1739	+ 55	— 4 32 51.61	—8.812	+ 39
604	γ^2 Normae	4.14	K o	16 15 20.429	+4.4860	—170	—50 0 36.99	—8.889	— 54
607	[σ Scorpii]	3.08	B 1	16 17 32.195	+3.6459	— 7	—25 27 1.63	—8.687	— 24
608	τ Herculis	3.91	B 5	16 17 56.092	+1.8031	— 12	+46 27 19.43	—8.596	+ 37
612	[η Ursae min.]	5.04	F o	16 19 13.842	—1.7610	—229	+75 53 39.56	—8.282	+250
609	γ Herculis	3.79	F o	16 19 16.269	+2.6463	— 35	+19 17 34.07	—8.483	+ 44
610	[ζ Triang. austr.]	4.93	G o	16 21 59.383	+6.4459	+403	—69 57 6.88	—8.204	+104
613	[ω Herculis]	4.53	A o p	16 22 38.668	+2.7684	+ 27	+14 10 12.38	—8.318	— 59
614	[Grb 2343 Drac]	5.66	A 2	16 23 6.379	+1.3119	+ 13	+55 20 27.14	—8.206	+ 17
615	†η Draconis	2.89	G 5	16 23 10.358	+0.8115	— 30	+61 38 58.63	—8.159	+ 58
611	γ Apodis	3.90	K o	16 24 10.815	+9.1819	—408	—78 45 58.83	—8.199	— 67
616	α Scorpii	1.22	M o + A 3	16 25 43.457	+3.6782	— 2	—26 18 1.84	—8.034	— 23
618	β Herculis	2.81	K o	16 27 38.315	+2.5787	— 72	+21 37 8.78	—7.875	— 16
617	†[λ Ophiuchi *m*]	3.85	A o	16 27 53.081	+3.0257	— 21	+ 2 6 50.02	—7.913	— 74
619	*A* Draconis	4.98	B 8 p	16 28 5.360	—0.1198	— 53	+68 53 52.78	—7.790	+ 34
620	[τ Scorpii]	2.91	B o	16 32 8.556	+3.7341	— 5	—28 5 35.63	—7.519	— 25
621	σ Herculis	4.25	A o	16 32 9.989	+1.9339	— 12	+42 33 35.44	—7.450	+ 43
623	[Grb 2373 UMin]	6.39	G 5	16 33 11.508	—2.5901	—325	+77 34 1.58	—7.139	+274
622	ζ Ophiuchi	2.70	B o	16 33 51.103	+3.3031	+ 8	—10 26 49.66	—7.332	+ 24
624	[Br 2114 Ophi]	5.04	K o	16 38 5.936	+3.4693	— 16	—17 37 39.62	—7.012	— 3
626	η Herculis	3.61	K o	16 40 50.218	+2.0565	+ 29	+39 2 7.36	—6.868	— 83
625	α Triang. austr.	1.88	K 2	16 42 17.552	+6.3478	+ 51	—68 55 13.34	—6.695	— 33
627	Grb 2377 Drac	4.88	F o	16 44 9.275	+1.1372	+ 17	+56 53 18.77	—6.447	+ 65
628	ε Scorpii	2.36	K o	16 46 16.350	+3.8852	—490	—34 11 9.80	—6.587	—252
629	49 Herculis	6.41	A o p	16 49 20.814	+2.7311	+ 10	+15 4 24.79	—6.077	+ 3
630	†ζ^2 Scorpii	3.75	K 5	16 50 21.321	+4.2204	—113	—42 15 37.73	—6.229	—235
631	ζ Arae	3.06	K 5	16 53 38.769	+4.9625	— 20	—55 53 51.30	—5.751	— 33
632	[ε^1 Arae]	4.15	K 2	16 54 47.620	+4.7796	0	—53 4 13.21	—5.605	+ 17
633	κ Ophiuchi	3.42	K o	16 54 49.566	+2.8394	—199	+ 9 28 0.93	—5.630	— 8
634	ε Herculis	3.92	A o	16 57 59.513	+2.2950	— 40	+31 0 49.11	—5.327	+ 29
635	[60 Herculis]	4.91	A 3	17 2 35.623	+2.7818	+ 33	+12 49 18.70	—4.975	— 9
636	[Grb 2415 Herc]	6.27	A 2	17 5 49.156	+1.9565	— 34	+40 35 36.52	—4.726	— 33
637	†η Ophiuchi *m*	2.63	A 2	17 6 56.053	+3.4401	+ 26	—15 39 8.19	—4.503	+ 94
638	[η Scorpii]	3.44	F 2	17 7 51.039	+4.2962	+ 22	—43 9 43.25	—4.801	—283
639	ζ Draconis	3.22	B 5	17 8 36.443	+0.1727	— 32	+65 47 18.36	—4.436	+ 21

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
640	†α Herculis *pr*	3.48 5.39	M 3	17 11 54.587	+2.7354	− 8	+14 27 26.58	−4.136	+ 37
641	δ Herculis	3.16	A 2	17 12 33.912	+2.4640	− 18	+24 54 31.28	−4.275	−158
643	π Herculis	3.36	K 5	17 12 57.322	+2.0892	− 25	+36 52 32.60	−4.080	+ 4
642	[ι Apodis]	5.60	B 8	17 15 23.602	+6.6888	+ 12	−70 3 47.58	−3.886	− 14
644	ϑ Ophiuchi	3.37	B 3	17 18 19.309	+3.6841	− 2	−24 56 29.03	−3.643	− 21
645	β Arae	2.80	K 2	17 20 18.375	+4.9859	− 7	−55 28 31.70	−3.475	− 25
647	[27 H. Ophiuchi]	4.61	F 0	17 23 26.719	+3.1829	− 64	− 5 2 6.44	−3.225	− 44
646	[45 Ophiuchi]	4.37	F 5	17 23 31.197	+3.8306	+ 15	−29 48 52.43	−3.315	−141
650	[77 Herculis]	5.81	A 2	17 25 8.667	+1.5897	− 4	+48 18 34.45	−3.042	− 7
648	δ Arae	3.79	B 8	17 25 40.581	+5.4149	− 66	−60 38 10.22	−3.075	− 88
649	[υ Scorpii]	2.80	B 3	17 26 40.866	+4.0785	0	−37 14 59.44	−2.932	− 31
651	α Arae	2.97	B 3 p	17 27 11.961	+4.6371	− 28	−49 49 50.72	−2.928	− 72
653	β Draconis	2.99	G 0	17 29 4.473	+1.3551	− 21	+52 20 42.40	−2.683	+ 13
652	λ Scorpii	1.71	B 2	17 29 31.869	+4.0734	0	−37 3 42.97	−2.682	− 28
655	[ν¹ Draconis]	4.98	A 5	17 30 59.491	+1.1806	+165	+55 13 28.70	−2.476	+ 54
657	[ν² Draconis]	4.95	A 5	17 31 4.914	+1.1817	+168	+55 12 47.42	−2.469	+ 52
656	α Ophiuchi	2.14	A 5	17 32 8.853	+2.7845	+ 80	+12 36 8.27	−2.654	−226
659	[27 Draconis]	5.21	K 0	17 32 11.956	−0.2416	− 29	+68 10 24.13	−2.291	+134
654	ϑ Scorpii	2.04	F 0	17 33 0.251	+4.3103	+ 15	−42 57 41.80	−2.350	+ 3
658	ξ Serpentis	3.64	A 5	17 34 8.920	+3.4347	− 32	−15 21 44.97	−2.315	− 61
664	ω Draconis	4.87	F 5	17 37 17.875	−0.3522	+ 3	+68 47 9.16	−1.659	+323
663	ι Herculis	3.79	B 3	17 37 46.137	+1.6932	− 9	+46 2 14.55	−1.936	+ 4
660	[κ Scorpii]	2.51	B 2	17 38 20.039	+4.1499	− 5	−39 0 3.80	−1.917	− 28
662	[μ Arae]	5.26	G 5	17 39 22.607	+4.7624	− 21	−51 48 15.27	−1.985	−188
661	η Pavonis	3.58	K 0	17 39 50.380	+5.8883	− 5	−64 41 52.12	−1.807	− 50
665	β Ophiuchi	2.94	K 0	17 40 30.407	+2.9634	− 28	+ 4 35 27.04	−1.542	+159
670	ψ Draconis *pr*	4.90 6.07	F 5	17 42 59.984	−1.0682	+ 37	+72 10 43.81	−1.753	−267
666	[ι¹ Scorpii]	3.14	F 5 p	17 43 23.135	+4.1958	+ 2	−40 6 20.55	−1.453	− 4
667	μ Herculis	3.48	G 5	17 44 6.498	+2.3478	−239	+27 45 16.76	−2.131	−744
668	[γ Ophiuchi]	3.74	A 0	17 44 52.945	+3.0079	− 16	+ 2 43 42.12	−1.390	− 71
669	[*G* Scorpii]	3.25	K 2	17 45 46.347	+4.0841	+ 51	−37 1 33.78	−1.206	+ 34
675	35 Draconis	5.04	F 5	17 52 7.841	−2.6874	+111	+76 58 19.69	−0.444	+246
671	ξ Draconis	3.90	K 0	17 52 29.346	+1.0369	+110	+56 52 53.35	−0.580	+ 76
672	ϑ Herculis	3.99	K 0	17 54 11.613	+2.0570	− 1	+37 15 26.57	−0.500	+ 6
676	γ Draconis	2.42	K 5	17 55 12.654	+1.3925	− 13	+51 29 42.84	−0.438	− 20
674	[ξ Herculis]	3.82	K 0	17 55 25.899	+2.3311	+ 62	+29 15 11.26	−0.416	− 19
673	ν Ophiuchi	3.50	K 0	17 55 43.305	+3.3025	− 6	− 9 46 4.50	−0.491	−120
677	67 Ophiuchi	3.92	B 5 p	17 57 38.295	+3.0043	− 4	+ 2 55 58.49	−0.215	− 10
679	γ Sagittarii	3.07	K 0	18 1 57.138	+3.8538	− 41	−30 25 35.96	−0.011	−184
678	[66 G. Apodis]	5.69	K 5	18 2 52.165	+8.3952	+ 43	−75 53 48.16	−0.021	−279

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
680	72 Ophiuchi	3.73	A 3	18 4 30.218	+2.8440	− 43	+ 9 33 14.00	+0.478	+ 82
681	o Herculis	3.83	A o	18 5 12.018	+2.3398	− 3	+28 45 10.96	+0.465	+ 9
682	μ Sagittarii	4.01	B 8 p	18 10 10.441	+3.5876	+ 1	−21 4 34.75	+0.892	− 1
685	[36 Draconis]	5.03	F 5	18 13 32.988	+0.3449	+ 529	+64 22 36.21	+1.215	+ 31
683	[η Sagittarii]	3.16	M 3	18 13 33.959	+4.0593	− 109	−36 46 53.81	+1.025	−163
684	[Grb 2533 Lyra]	5.42	B 5	18 13 46.683	+1.8656	− 7	+42 8 16.23	+1.201	− 4
687	[δ Sagittarii]	2.84	K o	18 17 9.146	+3.8410	+ 31	−29 51 19.66	+1.472	− 29
686	[ξ Pavonis]	4.25	K 2	18 17 41.882	+5.5286	− 5	−61 31 25.54	+1.555	+ 4
688	η Serpentis	3.42	K o	18 18 12.221	+3.1037	− 372	− 2 54 57.39	+0.896	−697
689	ε Sagittarii	1.95	A o	18 20 11.374	+3.9826	− 23	−34 24 53.61	+1.640	−126
690	109 Herculis	3.92	K o	18 21 8.380	+2.5562	+ 137	+21 44 28.26	+1.606	−242
693	†[φ Draconis *m*]	4.24	A o p	18 21 37.118	−0.8604	− 18	+71 18 23.05	+1.929	+ 41
695	χ Draconis	3.69	F 8	18 22 8.311	−1.0822	+1168	+72 42 26.54	+1.576	−357
691	α Telescopii	3.76	B 3	18 22 31.464	+4.4486	− 17	−46 0 12.44	+1.928	− 42
694	†39 Draconis	4.85	A 2	18 23 1.957	+0.8753	− 55	+58 45 55.71	+2.072	+ 60
692	[λ Sagittarii]	2.94	K o	18 24 16.028	+3.7023	− 33	−25 27 23.76	+1.938	−183
696	[γ Scuti]	4.73	A 3	18 25 46.609	+3.4191	0	−14 36 20.70	+2.249	− 3
697	[ϑ Coron. austr.]	4.69	G 5	18 29 13.097	+4.2840	+ 25	−42 21 27.82	+2.530	− 21
700	[Grb 2655 Drac]	5.84	K o	18 32 39.432	−2.8954	− 12	+77 30 6.17	+2.846	+ 2
699	α Lyrae	0.14	A o	18 34 54.349	+2.0309	+ 170	+38 43 36.21	+3.325	+283
701	[Grb 2640 Drac]	6.00	A 3	18 36 1.944	+0.1875	+ 17	+65 26 5.48	+3.220	+ 82
698	ζ Pavonis	4.10	K o	18 36 2.200	+7.0145	+ 14	−71 28 58.60	+2.983	−160
702	[ε Scuti]	5.09	G 5	18 40 15.145	+3.2671	+ 13	− 8 20 9.99	+3.511	+ 6
703	110 Herculis	4.26	F 5	18 43 4.684	+2.5814	− 12	+20 29 15.37	+3.413	−335
704	λ Pavonis	4.42	B 2	18 46 39.783	+5.5600	− 11	−62 15 32.17	+4.040	− 17
705	*β Lyrae	var.	B 8 p +B 2 p	18 47 51.790	+2.2145	− 2	+33 17 30.87	+4.155	− 2
707	o Draconis	4.78	K o	18 50 18.942	+0.8851	+ 98	+59 18 52.32	+4.390	+ 25
706	σ Sagittarii	2.14	B 3	18 51 32.723	+3.7198	+ 10	−26 22 22.84	+4.417	− 55
709	ϑ Serpent. *pr*	4.50	A 5	18 53 14.153	+2.9822	+ 29	+ 4 7 26.82	+4.653	+ 36
711	**R* Lyrae	var.	M 3	18 53 30.480	+1.8253	+ 17	+43 51 58.13	+4.721	+ 82
708	λ Telescopii	5.03	B 9	18 53 40.006	+4.8009	+ 19	−53 1 9.28	+4.662	+ 8
710	[ξ² Sagittarii]	3.61	K o	18 54 9.029	+3.5787	+ 20	−21 11 14.10	+4.680	− 14
714	[υ Draconis]	4.91	K o	18 55 8.276	−0.7334	+ 95	+71 13 2.76	+4.822	+ 47
713	γ Lyrae	3.30	A o p	18 56 41.856	+2.2437	− 7	+32 36 22.00	+4.910	+ 1
712	[ε Aquilae]	4.21	K o	18 56 53.886	+2.7225	− 39	+14 59 7.61	+4.853	− 74
715	†[ζ Sagittarii *m*]	2.71	A 2	18 58 47.715	+3.8170	− 13	−29 58 3.93	+5.087	− 1
716	ζ Aquilae	3.02	A o	19 2 39.074	+2.7569	− 8	+13 46 22.50	+5.319	− 94
717	λ Aquilae	3.55	B 9	19 3 3.847	+3.1833	− 17	− 4 58 26.55	+5.361	− 87
719	[ι Lyrae]	5.13	B 5	19 5 9.537	+2.1402	− 8	+36 0 18.28	+5.624	0
718	α Coron. austr.	4.12	A 2	19 5 23.534	+4.0820	+ 73	−37 59 59.21	+5.545	− 99

Nr. 705. Größe: Max. 3.4, Min. 4.1. Nr. 711. Größe: Max. 4.0, Min. 4.7, Größe in Harvard 50 = 4.32.

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ' "	"	
720	π Sagittarii	3.02	F 2	19 6 11.770	+3.5677	− 1	−21 7 14.64	+ 5.675	− 37
721	†[60 G. Pavon. *m*]	5.57	A 2	19 11 10.860	+6.0372	+ 7	−66 46 2.92	+ 6.109	− 20
723	δ Draconis	3.24	K o	19 12 32.697	+0.0148	+ 160	+67 33 21.69	+ 6.332	+ 93
722	[43 Sagittarii]	5.03	K o	19 14 7.492	+3.5099	− 9	−19 3 41.01	+ 6.357	− 16
724	ϑ Lyrae	4.46	K o	19 14 17.039	+2.0818	− 8	+38 1 32.97	+ 6.387	+ 2
725	ω Aquilae	5.14	A 5	19 14 59.939	+2.8156	− 4	+11 29 9.22	+ 6.463	+ 18
726	ϰ Cygni	3.98	K o	19 15 42.934	+1.3861	+ 61	+53 15 25.49	+ 6.626	+ 123
729	τ Draconis	4.63	K o	19 16 43.015	−1.1522	− 330	+73 14 41.02	+ 6.696	+ 112
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 18 17.469	+3.4355	− 2	−16 4 9.19	+ 6.711	− 6
728	α Sagittarii	4.11	B 8	19 19 43.919	+4.1572	+ 26	−40 43 50.35	+ 6.718	− 118
730	δ Aquilae	3.44	F o	19 22 28.349	+3.0244	+ 167	+ 2 59 37.41	+ 7.144	+ 84
731	[186 G. Sagittar.]	5.68	B 9	19 23 9.084	+3.7918	+ 15	−29 51 48.82	+ 7.071	− 45
734	[Grb 2900 Drac]	6.00	A 2	19 25 21.273	−3.6290	+ 40	+79 29 3.49	+ 7.260	− 31
733	ι Cygni	3.94	A 2	19 28 11.563	+1.5123	+ 19	+51 36 4.38	+ 7.654	+ 129
732	*β Cygni *pr*	3.24	K o + A o	19 28 18.019	+2.4190	− 3	+27 49 56.90	+ 7.530	− 4
735	[ι Telescopii]	5.02	K o	19 30 46.190	+4.4516	− 16	−48 13 49.72	+ 7.701	− 35
736	52 Sagittarii	4.66	B 9	19 33 3.453	+3.6510	+ 51	−25 1 3.62	+ 7.899	− 20
737	[ϰ Aquilae]	5.04	B o	19 33 39.802	+3.2271	0	− 7 9 44.60	+ 7.963	− 4
738	ϑ Cygni	4.64	F 5	19 34 49.880	+1.6078	− 30	+50 4 52.76	+ 8.314	+ 254
740	[15 Cygni]	5.02	K o	19 42 6.666	+2.1631	+ 56	+37 12 30.11	+ 8.673	+ 34
742	†δ Cygni	2.97	A o	19 43 5.924	+1.8749	+ 44	+44 59 0.46	+ 8.765	+ 48
739	[ν Telescopii]	5.52	A 5	19 43 7.738	+4.9014	+ 101	−56 30 31.71	+ 8.592	− 129
741	γ Aquilae	2.80	K 2	19 43 24.385	+2.8518	+ 8	+10 27 56.85	+ 8.745	+ 3
743	δ Sagittae	3.78	M o + A o	19 44 42.674	+2.6747	+ 2	+18 23 6.04	+ 8.856	+ 12
744	[51 Aquilae]	5.55	F o	19 47 28.766	+3.3011	− 19	−10 55 1.98	+ 9.096	+ 35
745	α Aquilae	0.89	A 5	19 47 51.318	+2.9266	+ 360	+ 8 42 30.81	+ 9.477	+ 387
747	†ε Draconis	3.99	K o	19 48 23.095	−0.2008	+ 153	+70 6 54.96	+ 9.169	+ 39
746	*[η Aquilae]	var.	G o p	19 49 24.966	+3.0558	+ 3	+ 0 51 1.08	+ 9.207	− 4
749	β Aquilae	3.90	K o	19 52 21.913	+2.9464	+ 26	+ 6 15 20.12	+ 8.962	− 478
748	ε Pavonis	4.10	A o	19 53 41.352	+6.9522	+ 190	−73 4 18.32	+ 9.414	− 130
750	†ψ Cygni	4.80	A 3	19 54 4.670	+1.5505	− 47	+52 16 44.23	+ 9.542	− 29
751	ϑ^1 Sagittarii	4.39	B 3	19 55 50.053	+3.9050	0	−35 26 24.53	+ 9.682	− 25
752	γ Sagittae	3.71	K 5	19 56 5.249	+2.6674	+ 42	+19 19 40.90	+ 9.754	+ 28
753	[62 Sagittarii]	4.60	M 3	19 58 58.281	+3.6894	+ 27	−27 52 41.48	+ 9.966	+ 20
755	[ξ Telescopii]	4.86	M o	20 2 47.865	+4.5991	− 15	−53 3 15.83	+10.248	+ 12
754	δ Pavonis	3.64	G 5	20 2 51.526	+5.8915	+1973	−66 20 14.63	+ 9.100	−1141
756	ϑ Aquilae	3.37	A o	20 8 12.541	+3.0950	+ 22	− 1 0 2.77	+10.645	+ 6
759	ϰ Cephei	4.40	B 9	20 10 56.704	−2.0090	+ 22	+77 31 53.96	+10.866	+ 28
757	31 o^1 Cygni	3.95	K o + B 8	20 11 44.453	+1.8886	− 3	+46 33 30.79	+10.904	+ 6
758	[33 Cygni]	4.32	A 3	20 12 0.198	+1.3946	+ 72	+56 23 0.82	+11.001	+ 83

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächere Komponente sind 5.36 und B 9. Nr. 746. Größe: Max. 3.7, Min. 4.5.

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
760	24 Vulpeculae	5.45	K 0	20 14 12.952	+2.5668	+ 9	+24 29 6.72	+11.065	− 14
761	α² Capricorni	3.77	G 5	20 14 43.595	+3.3284	+ 41	−12 43 55.94	+11.123	+ 6
762	[β Capricorni]	3.25	G 0 + A 0	20 17 38.494	+3.3705	+ 26	−14 58 20.13	+11.332	+ 3
763	[ϰ¹ Sagittarii]	5.64	A 0	20 18 23.422	+4.0749	+ 32	−42 14 24.91	+11.295	− 88
765	γ Cygni	2.32	F 8 p	20 20 4.406	+2.1528	0	+40 3 49.37	+11.504	+ 1
764	α Pavonis	2.12	B 3	20 20 54.781	+4.7501	+ 11	−56 55 44.93	+11.482	− 82
766	†[ρ Capric.]	4.96	F 0	20 25 26.380	+3.4217	− 12	−18 0 48.14	+11.865	− 20
767	ϑ Cephei	4.28	A 5	20 28 34.621	+1.0072	+ 60	+62 47 31.35	+12.092	− 11
768	ε Delphini	3.98	B 5	20 30 20.735	+2.8658	+ 4	+11 5 53.62	+12.210	− 17
770	73 Draconis	5.18	A 2 p	20 32 19.260	−0.7843	+ 10	+74 44 57.66	+12.350	− 11
769	α Indi	3.21	K 0	20 33 21.298	+4.2217	+ 50	−47 30 8.04	+12.508	+ 72
771	†β Delphini *m*	3.72	F 5	20 34 44.070	+2.8129	+ 73	+14 23 7.21	+12.499	− 30
772	[ϰ Delphini]	5.23	G 5	20 36 12.852	+2.9134	+ 210	+ 9 52 25.26	+12.651	+ 21
773	υ Capricorni	5.33	M 0	20 36 38.161	+3.4152	− 15	−18 21 4.41	+12.641	− 18
774	α Delphini	3.86	B 8	20 36 51.003	+2.7862	+ 41	+15 41 57.47	+12.674	+ 1
777	α Cygni	1.33	A 2 p	20 39 23.096	+2.0448	0	+45 3 54.49	+12.848	+ 5
775	β Pavonis	3.60	A 5	20 39 34.569	+5.4150	− 64	−66 25 14.34	+12.876	+ 18
776	[η Indi]	4.70	F 0	20 39 38.616	+4.4084	+ 172	−52 8 12.83	+12.808	− 54
778	[δ Delphini]	4.53	A 5	20 40 39.401	+2.8006	− 16	+14 51 29.71	+12.889	− 40
779	[ψ Capricorni]	4.26	F 8	20 42 32.765	+3.5524	− 40	−25 29 16.30	+12.901	− 155
780	ε Cygni	2.64	K 0	20 43 46.899	+2.4271	+ 283	+33 44 40.48	+13.466	+ 329
782	[6 H. Cephei]	4.63	G 0	20 43 51.743	+1.4888	− 87	+57 21 49.89	+12.908	− 234
783	η Cephei	3.59	K 0	20 44 4.296	+1.2210	+ 130	+61 36 19.11	+13.977	+ 822
781	ε Aquarii	3.83	A 0	20 44 25.740	+3.2475	+ 20	− 9 42 59.84	+13.149	− 31
784	†λ Cygni *m*	4.47	B 5	20 45 4.168	+2.3365	+ 3	+36 16 9.66	+13.218	− 3
785	β Indi	3.72	K 0	20 50 8.150	+4.6933	+ 23	−58 40 55.57	+13.533	− 19
786	32 Vulpeculae	5.24	K 5	20 52 0.061	+2.5566	− 6	+27 49 42.50	+13.673	+ 2
788	ν Cygni	4.04	A 0	20 54 56.053	+2.2362	+ 5	+40 56 7.39	+13.848	− 9
789	[11 Aquarii]	6.26	G 0	20 57 24.282	+3.1586	+ 26	− 4 57 47.25	+13.881	− 132
787	[α Octantis]	5.24	F 2	20 57 31.277	+7.2967	+ 29	−77 15 18.03	+13.660	− 362
790	ζ Microscopii	5.35	F 0	20 59 8.274	+3.8348	− 25	−38 52 1.35	+14.012	− 109
792	[ξ Cygni]	3.92	K 5	21 2 44.776	+2.1818	+ 4	+43 41 15.77	+14.347	+ 5
791	[*A* Capricorni]	4.60	M 0	21 3 37.297	+3.5094	− 21	−25 14 48.92	+14.353	− 43
793	61 Cygni *pr*	5.57	K 5	21 4 12.248	+2.6870	+3504	+38 27 12.24	+17.690	+3259
794	ν Aquarii	4.52	K 0	21 6 19.626	+3.2679	+ 61	−11 36 56.75	+14.548	− 12
795	Br 2777 Ceph	5.90	B 9	21 6 43.988	−1.1919	+ 60	+77 53 0.77	+14.618	+ 36
798	†[Grb 3415 *m*]	5.65	B 2	21 10 16.575	+1.5272	− 6	+59 44 21.38	+14.793	− 2
797	ζ Cygni	3.40	K 0	21 10 22.827	+2.5528	− 4	+29 58 47.88	+14.748	− 53
796	[23 G. Indi]	5.84	A 5	21 11 29.387	+4.2864	+ 18	−53 30 45.74	+14.856	− 11
799	†[τ Cygni]	3.82	F 0	21 12 23.619	+2.3944	+ 132	+37 47 18.62	+15.356	+ 437

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.ˢ0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
800	α Equulei	4.14	F 8 + A 3	21 12 49.450	+2.9988	+ 36	+ 4 59 55.64	+14.862	— 83
801	[ε Microscop.]	4.79	A 0	21 14 18.242	+3.6385	+ 39	—32 25 27.83	+15.010	— 21
802	[ϑ¹ Microscop.]	4.92	A 2 p	21 16 55.753	+3.8387	+ 56	—41 3 51.75	+15.181	— 1
803	α Cephei	2.60	A 5	21 17 8.855	+1.4319	+ 212	+62 19 51.23	+15.245	+ 52
804	1 Pegasi	4.24	K 0	21 19 18.603	+2.7742	+ 72	+19 32 48.87	+15.384	+ 68
805	γ Pavonis	4.30	F 8	21 21 30.547	+4.9700	+ 155	—65 38 21.25	+16.239	+ 799
806	ζ Capricorni	3.86	G 5 p	21 23 14.684	+3.4258	+ 1	—22 40 20.19	+15.563	+ 27
807	[71 Cygni]	5.34	K 0	21 27 13.947	+2.2135	+ 42	+46 16 31.25	+15.862	+ 108
809	β Cephei	3.32	B 1	21 27 53.598	+0.7763	+ 21	+70 17 49.84	+15.802	+ 13
808	β Aquarii	3.07	G 0	21 28 24.068	+3.1581	+ 12	— 5 50 9.93	+15.813	— 4
811	74 Cygni	5.09	A 5	21 34 32.462	+2.4042	— 7	+40 8 35.98	+16.160	+ 19
810	ν Octantis	3.74	K 0	21 34 53.060	+6.7035	+ 184	—77 39 29.69	+15.920	— 240
812	[γ Capricorni]	3.80	F 0 p	21 36 46.134	+3.3241	+ 131	—16 56 3.60	+16.234	— 22
813	[13 H. Cephei]	5.64	O e 5	21 37 5.782	+1.8610	— 7	+57 13 1.84	+16.273	0
817	[11 Cephei]	4.85	K 0	21 41 2.936	+0.8807	+ 235	+71 2 5.97	+16.576	+ 105
815	ε Pegasi	2.54	K 0	21 41 14.291	+2.9462	+ 18	+ 9 35 56.68	+16.486	+ 5
814	[ι Pisc. austr.]	4.35	A 0	21 41 22.687	+3.5750	+ 29	—33 18 1.98	+16.398	— 91
816	†[ϰ Pegasi *m*]	4.27	F 5	21 41 55.548	+2.7164	+ 23	+25 22 6.57	+16.531	+ 15
818	[λ Capricorni]	5.43	A 0	21 43 18.393	+3.2294	+ 17	—11 38 36.71	+16.580	— 4
819	δ Capricorni	2.98	A 5	21 43 43.880	+3.3114	+ 181	—16 24 1.69	+16.312	— 293
821	π² Cygni	4.26	B 3	21 44 34.408	+2.2160	+ 2	+49 1 52.73	+16.648	+ 2
820	[o Indi]	5.50	K 2	21 45 44.718	+5.0877	— 44	—69 54 35.79	+16.701	— 3
822	γ Gruis	3.16	B 8	21 50 18.104	+3.6341	+ 85	—37 38 52.51	+16.907	— 13
823	16 Pegasi	5.05	B 3	21 50 19.777	+2.7295	+ 2	+25 38 31.58	+16.924	+ 3
824	[δ Indi]	4.56	F 0	21 53 50.919	+4.0876	+ 63	—55 16 43.84	+17.081	— 3
826	[20 Pegasi]	5.66	F 2	21 58 9.863	+2.9223	+ 35	+12 49 54.56	+17.233	— 46
825	[ε Indi]	4.74	K 5	21 58 47.112	+4.5932	+4809	—57 2 1.07	+14.753	—2554
827	α Aquarii	3.19	G 0	22 2 42.136	+3.0811	+ 10	— 0 36 43.42	+17.473	— 4
830	20 Cephei	5.39	K 5	22 3 10.925	+1.8232	+ 21	+62 29 33.07	+17.560	+ 64
828	ι Aquarii	4.35	B 8	22 3 11.906	+3.2401	+ 26	—14 9 41.58	+17.445	— 53
831	[ι Pegasi]	3.96	F 5	22 4 12.900	+2.7924	+ 215	+25 3 4.98	+17.569	+ 28
829	α Gruis	2.16	B 5	22 4 27.637	+3.7835	+ 123	—47 15 8.60	+17.404	— 147
832	[μ Pisc. austr.]	4.62	A 2	22 4 53.285	+3.5016	+ 64	—33 16 55.85	+17.532	— 37
833	[27 Pegasi]	5.65	K 0	22 6 33.913	+2.6579	— 49	+32 52 42.92	+17.576	— 63
834	ϑ Pegasi	3.70	A 2	22 7 10.335	+3.0259	+ 181	+ 5 54 7.31	+17.701	+ 37
835	π Pegasi	4.38	F 5	22 7 19.155	+2.6640	— 13	+32 52 59.41	+17.654	— 17
837	24 Cephei	4.99	G 5	22 8 39.467	+1.1538	+ 63	+72 2 43.81	+17.739	+ 14
836	ζ Cephei	3.62	K 0	22 8 46.120	+2.0806	+ 14	+57 54 18.08	+17.738	+ 8
838	[λ Pisc. austr.]	5.40	B 9	22 10 54.953	+3.4014	+ 20	—28 3 54.48	+17.816	0
839	[ε Octantis]	5.11	M 3	22 13 25.421	+6.7765	+ 304	—80 44 23.06	+17.882	— 34

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
840	ϑ Aquarii	4.32	K o	22 13 40.110	+3.1658	+ 78	− 8 4 57.94	+17.907	− 19
841	α Tucanae	2.91	K 2	22 14 24.561	+4.1170	− 83	−60 33 34.09	+17.920	− 34
842	γ Aquarii	3.97	A o	22 18 33.438	+3.0985	+ 85	− 1 41 25.13	+18.125	+ 12
843	[31 Pegasi]	4.93	B 3 p	22 18 33.776	+2.9527	+ 2	+11 54 8.53	+18.130	+ 17
844	β Lacertae	4.58	K o	22 21 11.728	+2.3584	− 20	+51 55 40.56	+18.025	−185
845	[ν Gruis]	5.48	K o	22 25 8.575	+3.5181	+ 31	−39 26 9.59	+18.195	−156
846	[δ¹ Gruis]	4.02	G 5	22 25 41.464	+3.5879	+ 24	−43 48 9.98	+18.373	+ 2
847	*[δ Cephei]	var.	verän.	22 26 56.250	+2.2261	+ 11	+58 6 27.40	+18.417	+ 3
848	α Lacertae	3.85	A o	22 28 48.847	+2.4707	+ 139	+49 58 24.89	+18.501	+ 22
849	[υ Aquarii]	5.29	F 5	22 31 24.859	+3.2821	+ 155	−21 0 58.32	+18.422	−143
850	η Aquarii	4.13	B 8	22 32 16.384	+3.0827	+ 60	− 0 25 38.26	+18.544	− 50
851	[31 Cephei]	5.22	F o	22 34 17.152	+1.4816	+ 390	+73 19 53.49	+18.689	+ 30
853	[30 Cephei]	5.21	A 2	22 36 30.957	+2.1266	− 12	+63 16 19.97	+18.709	− 20
852	10 Lacertae	4.91	O e 5	22 36 33.860	+2.6914	− 1	+38 44 14.98	+18.727	− 3
854	[ε Pisc. austr.]	4.22	B 8	22 37 20.449	+3.3191	+ 21	−27 21 25.42	+18.760	+ 6
855	ζ Pegasi	3.61	B 8	22 38 28.079	+2.9920	+ 53	+10 31 3.54	+18.782	− 7
856	β Gruis	2.24	M 3	22 39 5.596	+3.5851	+ 133	−47 11 56.15	+18.805	− 3
857	η Pegasi	3.10	G o	22 40 11.146	+2.8118	+ 9	+29 54 25.14	+18.819	− 22
858	[13 Lacertae]	5.24	K o	22 41 24.618	+2.6747	− 10	+41 30 14.34	+18.888	+ 11
859	λ Pegasi	4.14	K o	22 43 38.270	+2.8893	+ 39	+23 14 57.98	+18.936	− 6
860	ε Gruis	3.69	A 2	22 44 56.430	+3.6269	+ 111	−51 37 58.24	+18.920	− 59
861	[τ Aquarii]	4.21	K 5	22 46 24.989	+3.1765	− 10	−13 54 35.05	+18.989	− 31
862	[μ Pegasi]	3.67	K o	22 47 6.238	+2.8952	+ 106	+24 17 3.69	+19.003	− 36
863	ι Cephei	3.68	K o	22 47 32.242	+2.1337	− 113	+65 53 4.49	+18.932	−118
864	λ Aquarii	3.84	M o	22 49 29.085	+3.1297	+ 5	− 7 53 57.66	+19.142	+ 40
865	ρ Indi	6.14	M o	22 50 30.870	+4.1852	− 73	−70 23 41.14	+19.204	+ 74
866	δ Aquarii	3.51	A 2	22 51 28.068	+3.1841	− 29	−16 8 25.30	+19.134	− 20
867	α Pisc. austr.	1.29	A 3	22 54 20.376	+3.3163	+ 258	−29 56 26.42	+19.068	−159
868	[ζ Gruis]	4.18	G 5	22 57 20.884	+3.5455	− 74	−53 4 34.65	+19.296	− 4
869	ο Androm.	3.63	B 5 + A 2 p	22 59 9.280	+2.7593	+ 18	+42 0 11.79	+19.343	+ 2
870	β Pegasi	2.61	M o	23 0 51.692	+2.9078	+ 141	+27 45 25.26	+19.524	+143
871	α Pegasi	2.57	A o	23 1 46.180	+2.9880	+ 42	+14 52 55.47	+19.364	− 36
872	†ϑ Gruis	4.35	F 5	23 3 30.374	+3.3821	− 40	−43 50 41.30	+19.422	− 16
874	†π Cephei	4.56	G 5	23 5 58.896	+1.9057	+ 21	+75 3 46.94	+19.468	− 21
873	88 Aquarii	3.80	K o	23 6 14.993	+3.1992	+ 39	−21 29 54.19	+19.535	+ 40
875	Br 3077 Cass	5.65	K 2	23 10 22.980	+2.8862	+2522	+56 50 12.65	+19.875	+299
876	[25 G. Tucanae]	5.69	G o	23 13 22.158	+3.6128	+ 252	−62 19 42.85	+19.606	− 24
877	γ Tucanae	4.10	F 2	23 13 56.418	+3.5054	− 38	−58 33 53.58	+19.735	+ 94
878	[γ Piscium]	3.85	K o	23 14 3.230	+3.1100	+ 506	+ 2 57 15.08	+19.667	+ 24
879	γ Sculptoris	4.51	K o	23 15 35.305	+3.2409	+ 17	−32 51 32.74	+19.608	− 60

Nr. 847. Größe: Max. 3.7, Min. 4.6; Spektrum wechselt von F 5 bis G o.

Mittlere Sternörter 1940.0

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1940.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
880	τ Pegasi	4.65	A 5	23 17 39.808	+2.9690	+ 21	+23 24 42.14	+19.701	− 2
882	4 Cassiopeiae	5.20	K 5	23 22 9.678	+2.6618	+ 7	+61 57 11.71	+19.765	− 6
881	[υ Pegasi]	4.57	G 0	23 22 22.848	+2.9938	+137	+23 4 24.93	+19.816	+ 42
883	[ο Gruis]	5.54	F 0	23 23 15.613	+3.3590	+ 25	−53 3 14.15	+19.920	+133
884	ϰ Piscium	4.94	A 2 p	23 23 51.329	+3.0753	+ 56	+ 0 55 36.95	+19.705	− 90
885	70 Pegasi	4.67	K 0	23 26 7.065	+3.0339	+ 42	+12 25 45.98	+19.864	+ 39
886	[β Sculptoris]	4.46	B 9	23 29 45.513	+3.2183	+ 73	−38 9 1.19	+19.891	+ 21
887	†[72 Pegasi *m*]	5.21	K 2	23 30 58.267	+2.9755	+ 38	+30 59 38.46	+19.871	− 12
888	[248 G. Aquarii]	6.51	K 0	23 32 26.349	+3.0947	− 3	− 7 47 47.83	+19.924	+ 25
890	[λ Androm.]	4.00	K 0	23 34 37.153	+2.9348	+152	+46 7 58.78	+19.505	−416
889	[11 G. Phoenicis]	4.86	A 2	23 34 37.570	+3.2312	+ 64	−45 49 28.04	+19.916	− 5
891	ι Androm.	4.28	B 8	23 35 11.179	+2.9412	+ 23	+42 56 8.86	+19.929	+ 3
892	ι Piscium	4.28	F 8	23 36 51.742	+3.0856	+249	+ 5 18 3.49	+19.510	−432
893	γ Cephei	3.42	K 0	23 36 51.869	+2.4548	−213	+77 17 50.87	+20.099	+157
894	ω² Aquarii	4.62	A 0	23 39 36.695	+3.1112	+ 66	−14 52 36.53	+19.900	− 64
895	41 H. Cephei	5.02	A 0	23 45 1.566	+2.8644	+ 13	+67 28 24.26	+20.004	+ 3
896	Lac. δ Sculpt.	4.64	A 0	23 45 48.218	+3.1259	+ 81	−28 27 43.66	+19.905	−100
897	[268 G. Aquarii]	6.08	K 0	23 47 8.963	+3.0959	+ 92	−10 18 33.07	+20.090	+ 79
898	φ Pegasi	5.23	M 0	23 49 25.905	+3.0517	− 5	+18 47 13.42	+19.992	− 30
899	[ρ Cassiopeiae]	4.85	F 8 p	23 51 22.444	+2.9947	− 7	+57 9 56.25	+20.034	+ 5
900	[27 Piscium]	5.07	K 0	23 55 36.052	+3.0716	− 33	− 3 53 19.86	+19.974	− 66
901	[π Phoenicis]	5.14	K 0	23 55 49.660	+3.1109	+ 56	−53 4 51.42	+20.109	+ 69
902	ω Piscium	4.03	F 5	23 56 13.686	+3.0807	+101	+ 6 31 52.12	+19.933	−108
903	ε Tucanae	4.71	B 9	23 56 48.772	+3.1233	+ 89	−65 54 39.19	+20.023	− 19
904	[ϑ Octantis]	4.73	K 0	23 58 32.469	+3.0955	−151	−77 23 48.45	+19.883	−160

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.
Ein † vor dem Namen eines Sternes deutet darauf hin, daß dieser Stern in Zukunft nicht mehr als Fundamentalstern gelten soll. Vgl. Astron. Nachr. Bd. 231, S. 309.

Nördliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung 1940.5	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1940.0	Jährl. Veränderung 1940.5	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.52	K 0	1 0 9.64	+ 8.039	+ 77	+85 56 10.91	+19.349	— 6
Nb	α Ursae min.	2.12	F 8	1 42 34.16	+35.857	+170	+88 58 44.26	+18.054	— 4
Nc	*Grb 750 Ceph	6.70	F 8	4 16 52.60	+18.033	+ 17	+85 23 37.04	+ 8.734	+ 29
Nd	51 H. Cephei	5.26	M 0	7 13 7.74	+28.445	— 47	+87 8 39.70	— 6.341	— 35
Ne	1 H. Dracon.	4.58	K 2	9 28 41.70	+ 8.608	— 7	+81 35 39.16	—15.854	— 18
Nf	30 H. Camel.	5.34	F 2	10 23 56.58	+ 7.369	— 44	+82 51 55.08	—18.286	+ 25
Ng	ε Ursae min.	4.40	G 5	16 52 2.49	— 6.175	+ 6	+82 8 20.53	— 5.857	+ 4
Nh	δ Ursae min.	4.44	A 0	17 51 32.85	—19.469	+ 12	+86 36 43.10	— 0.698	+ 54
Ni	λ Ursae min.	6.55	M 3	18 34 9.77	—76.313	—112	+89 2 39.26	+ 2.924	+ 3
Nk	76 Draconis	5.69	A 0	20 47 3.07	— 4.298	+ 14	+82 18 38.84	+13.374	+ 27

Nr. Nc. Größe aus Harvard 54 entnommen.

Südliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1940.0	Jährl. Veränderung 1940.5	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1940.0	Jährl. Veränderung 1940.5	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
Sa	4 G. Octantis	5.63	K 0	1 40 39.77	— 3.492	+ 22	—85 4 24.43	+18.167	+ 25
Sb	ξ Mensae	5.85	K 0	5 5 37.66	— 6.866	— 3	—82 33 13.98	+ 4.726	+ 10
Sc	ζ Octantis	5.38	F 0	9 5 47.16	— 8.536	— 91	—85 25 33.46	—14.486	+ 36
Sd	ι Octantis	5.38	K 0	12 48 27.66	+ 6.204	+ 46	—84 47 53.05	—19.571	+ 24
Se	20 G. Octantis	6.52	A 2	14 56 36.85	+28.432	—177	—87 54 29.74	—14.434	— 68
Sf	26 G. Octantis	6.13	A 0	16 38 6.82	+22.260	+ 10	—86 15 47.07	— 6.995	0
Sg	χ Octantis	5.22	K 0	18 19 52.45	+35.541	— 74	—87 39 28.58	+ 1.631	—130
Sh	σ Octantis	5.48	F 0	20 1 45.73	+82.270	+134	—89 10 5.09	+10.202	— 4
Si	β Octantis	4.34	F 0	22 40 3.05	+ 6.177	— 23	—81 41 49.51	+18.847	+ 9
Sk	τ Octantis	5.56	K 0	23 19 51.75	+ 9.177	+ 28	—87 48 45.03	+19.749	+ 11



Scheinbare Sternörter 1940

Tag	1) α Andromedae AR.		1) α Andromedae Dekl.		2) β Cassiopeiae AR.		2) β Cassiopeiae Dekl.		3) ε Phoenicis AR.		3) ε Phoenicis Dekl.		7) γ Pegasi AR.		7) γ Pegasi Dekl.	
1940	$0^h\ 5^m$		$+28°\ 45'$		$0^h\ 5^m$		$+58°\ 49'$		$0^h\ 6^m$		$-46°\ 4'$		$0^h\ 10^m$		$+14°\ 50'$	
	s		″		s		″		s		″		s		″	
Jan. 0	17.452	147	44.88	96	58.871	320	27.74	76	21.953	209	54.55	26	9.053	126	67.11	89
10	17.305	142	43.92	123	58.551	309	26.98	128	21.744	193	54.29	72	8.927	120	66.22	99
20	17.163	130	42.69	143	58.242	286	25.70	175	21.551	172	53.57	116	8.807	110	65.23	107
30	17.033	112	41.26	159	57.956	249	23.95	214	21.379	146	52.41	157	8.697	96	64.16	111
Febr. 9	16.921	88	39.67	168	57.707	202	21.81	246	21.233	115	50.84	194	8.601	76	63.05	109
19	16.833	57	37.99	170	57.505	142	19.35	268	21.118	77	48.90	226	8.525	50	61.96	101
29	16.776	21	36.29	164	57.363	74	16.67	278	21.041	35	46.64	254	8.475	18	60.95	89
März 10	16.755	20	34.65	149	57.289	1	13.89	276	21.006	11	44.10	275	8.457	18	60.06	71
20	16.775	65	33.16	128	57.290	80	11.13	264	21.017	60	41.35	292	8.475	57	59.35	48
30	16.840	112	31.88	100	57.370	160	8.49	241	21.077	111	38.43	303	8.532	99	58.87	21
Apr. 9	16.952	158	30.88	68	57.530	238	6.08	209	21.188	163	35.40	308	8.631	141	58.66	9
19	17.110	203	30.20	31	57.768	309	3.99	169	21.351	213	32.32	304	8.772	182	58.75	41
29	17.313	244	29.89	7	58.077	372	2.30	122	21.564	261	29.28	296	8.954	220	59.16	72
Mai 9	17.557	277	29.96	47	58.449	425	1.08	72	21.825	304	26.32	281	9.174	253	59.88	102
19	17.834	305	30.43	85	58.874	466	0.36	20	22.129	340	23.51	258	9.427	280	60.90	131
29	18.139	325	31.28	122	59.340	492	0.16	34	22.469	368	20.93	230	9.707	299	62.21	156
Juni 8	18.464	335	32.50	154	59.832	506	0.50	85	22.837	387	18.63	195	10.006	311	63.77	178
18	18.799	337	34.04	183	60.338	505	1.35	135	23.224	395	16.68	157	10.317	314	65.55	193
28	19.136	329	35.87	207	60.843	490	2.70	180	23.619	394	15.11	113	10.631	309	67.48	204
Juli 8	19.465	313	37.94	225	61.333	464	4.50	221	24.013	381	13.98	68	10.940	295	69.52	210
18	19.778	289	40.19	237	61.797	427	6.71	256	24.394	358	13.30	19	11.235	274	71.62	210
28	20.067	260	42.56	244	62.224	382	9.27	285	24.752	324	13.11	29	11.509	248	73.72	205
Aug. 7	20.327	224	45.00	246	62.606	327	12.12	308	25.076	284	13.40	75	11.757	216	75.77	196
17	20.551	186	47.46	241	62.933	269	15.20	324	25.360	235	14.15	119	11.973	181	77.73	182
27	20.737	145	49.87	232	63.202	206	18.44	333	25.595	182	15.34	158	12.154	143	79.55	166
Sept. 6	20.882	104	52.19	220	63.408	142	21.77	335	25.777	125	16.92	191	12.297	104	81.21	146
16	22 20.986	64	54.39	202	22 63.550	77	25.12	331	22 25.902	68	18.83	216	23 12.401	67	82.67	125
25	21.050	25	56.41	182	63.627	15	28.43	319	25.970	12	20.99	232	12.468	31	83.92	103
Okt. 5	21.075	10	58.23	159	63.642	44	31.62	301	25.982	41	23.31	240	12.499	2	84.95	80
15	21.065	42	59.82	134	63.598	101	34.63	276	25.941	88	25.71	236	12.497	31	85.75	57
25	21.023	70	61.16	106	63.497	152	37.39	245	25.853	130	28.07	224	12.466	56	86.32	35
Nov. 4	20.953	94	62.22	77	63.345	199	39.84	208	25.723	163	30.31	203	12.410	77	86.67	13
14	20.859	113	62.99	47	63.146	240	41.92	165	25.560	189	32.34	173	12.333	95	86.80	8
24	20.746	129	63.46	15	62.906	274	43.57	117	25.371	206	34.07	137	12.238	109	86.72	29
Dez. 4	20.617	141	63.61	18	62.632	300	44.74	66	25.165	216	35.44	95	12.129	118	86.43	47
14	20.476	147	63.43	49	62.332	318	45.40	12	24.949	219	36.39	51	12.011	124	85.96	64
24	20.329	150	62.94	79	62.014	324	45.52	43	24.730	213	36.90	3	11.887	127	85.32	81
34	20.179		62.15		61.690		45.09		24.517		36.93		11.760		84.51	
Mittl. Ort	16.833		33.33		57.715		8.15		22.325		41.94		8.554		60.41	
sec δ, tg δ	1.141		+0.549		1.932		+1.653		1.442		−1.038		1.035		+0.265	
a, a'	+3.1		+20.0		+3.1		+20.0		+3.0		+20.0		+3.1		+20.0	
b, b'	+0.04		− 0.02		+0.11		− 0.03		−0.07		− 0.03		+0.02		− 0.04	

Tag	9) ι Ceti AR.		9) ι Ceti Dekl.		10) ζ Tucanae AR.		10) ζ Tucanae Dekl.		11) β Hydri AR.		11) β Hydri Dekl.		12) α Phoenicis AR.		12) α Phoenicis Dekl.	
1940	0^h 16^m		−9° 8′		0^h 16^m		−65° 13′		0^h 22^m		−77° 34′		0^h 23^m		−42° 37′	
	s		"		s		"		s		"		s		"	
Jan. 0	22.501	121	84.87	62	56.41	41	54.55	70	35.23	90	109.11	93	19.213	199	66.21	0
10	22.380	116	85.49	47	56.00	39	53.85	126	34.33	85	108.18	151	19.014	189	66.21	45
20	22.264	107	85.96	31	55.61	35	52.59	178	33.48	78	106.67	206	18.825	172	65.76	88
30	22.157	93	86.27	12	55.26	30	50.81	225	32.70	68	104.61	254	18.653	152	64.88	130
Febr. 9	22.064	74	86.39	8	54.96	24	48.56	266	32.02	56	102.07	295	18.501	125	63.58	168
19	21.990	51	86.31	28	54.72	18	45.90	301	31.46	42	99.12	328	18.376	92	61.90	202
29	21.939	22	86.03	51	54.54	11	42.89	327	31.04	29	95.84	353	18.284	55	59.88	232
März 10	21.917	12	85.52	75	54.43	4	39.62	347	30.75	14	92.31	370	18.229	12	57.56	257
20	21.929	48	84.77	98	54.39	4	36.15	359	30.61	1	88.61	378	18.217	35	54.99	276
30	21.977	88	83.79	122	54.43	13	32.56	363	30.62	17	84.83	378	18.252	84	52.23	291
Apr. 9	22.065	128	82.57	144	54.56	21	28.93	359	30.79	32	81.05	370	18.336	134	49.32	299
19	22.193	168	81.13	164	54.77	29	25.34	348	31.11	48	77.35	353	18.470	184	46.33	302
29	22.361	206	79.49	182	55.06	36	21.86	329	31.59	61	73.82	330	18.654	232	43.31	296
Mai 9	22.567	238	77.67	195	55.42	43	18.57	303	32.20	74	70.52	298	18.886	275	40.35	285
19	22.805	267	75.72	203	55.85	49	15.54	269	32.94	85	67.54	261	19.161	313	37.50	268
29	23.072	288	73.69	208	56.34	54	12.85	230	33.79	95	64.93	216	19.474	342	34.82	243
Juni 8	23.360	302	71.61	206	56.88	57	10.55	186	34.74	101	62.77	168	19.816	363	32.39	213
18	23.662	308	69.55	199	57.45	59	8.69	136	35.75	106	61.09	114	20.179	376	30.26	177
28	23.970	305	67.56	187	58.04	59	7.33	83	36.81	107	59.95	58	20.555	377	28.49	137
Juli 8	24.275	295	65.69	170	58.63	59	6.50	28	37.88	106	59.37	1	20.932	368	27.12	92
18	24.570	277	63.99	147	59.22	55	6.22	28	38.94	101	59.36	57	21.300	349	26.20	45
28	24.847	251	62.52	123	59.77	51	6.50	82	39.95	94	59.93	113	21.649	322	25.75	2
Aug. 7	25.098	221	61.29	96	60.28	45	7.32	134	40.89	83	61.06	165	21.971	285	25.77	49
17	25.319	187	60.33	66	60.73	38	8.66	181	41.72	71	62.71	212	22.256	242	26.26	95
27	25.506	149	59.67	36	61.11	29	10.47	222	42.43	55	64.83	252	22.498	194	27.21	135
Sept. 6	25.655	110	59.31	7	61.40	21	12.69	254	42.98	38	67.35	283	22.692	142	28.56	171
16	[25] 25.765	72	59.24	19	[25] 61.61	11	15.23	278	43.36	20	70.18	304	22.834	88	30.27	200
25*)	25.837	36	59.43	42	61.72	2	18.01	290	[27] 43.56	1	73.22	314	[27] 22.922	36	32.27	221
Okt. 5	25.873	1	59.85	63	61.74	8	20.91	292	43.57	18	76.36	311	22.958	13	34.48	232
15	25.874	28	60.48	78	61.66	16	23.83	281	43.39	35	79.47	296	22.945	59	36.80	234
25	25.846	55	61.26	90	61.50	24	26.64	260	43.04	51	82.43	270	22.886	99	39.14	227
Nov. 4	25.791	76	62.16	97	61.26	31	29.24	228	42.53	65	85.13	232	22.787	134	41.41	210
14	25.715	94	63.13	97	60.95	36	31.52	186	41.88	77	87.45	186	22.653	160	43.51	185
24	25.621	106	64.10	95	60.59	39	33.38	138	41.11	85	89.31	131	22.493	180	45.36	152
Dez. 4	25.515	116	65.05	91	60.20	42	34.76	83	40.26	90	90.62	72	22.313	194	46.88	115
14	25.399	121	65.96	81	59.78	42	35.59	26	39.36	93	91.34	10	22.119	201	48.03	73
24	25.278	122	66.77	71	59.36	42	35.85	33	38.43	92	91.44	54	21.918	200	48.76	29
34	25.156		67.48		58.94		35.52		37.51		90.90		21.718		49.05	
Mittl. Ort	22.219		82.85		57.48		37.98		37.83		91.15		19.376		53.66	
sec δ, tg δ	1.013		−0.161		2.387		−2.167		4.654		−4.545		1.359		−0.921	
a, a'	+3.1		+20.0		+2.9		+20.0		+2.5		+19.9		+2.9		+19.9	
b, b'	−0.01		− 0.07		−0.14		− 0.07		−0.30		− 0.10		−0.06		− 0.10	

*) Bei Stern 11) und 12) lies Sept. 26.

Scheinbare Sternörter 1940

Tag	13) 12 Ceti				17) ζ Cassiopeiae				18) π Andromedae				20) δ Andromedae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$0^h\ 26^m$		$-4°\ 16'$		$0^h\ 33^m$		$+53°\ 33'$		$0^h\ 33^m$		$+33°\ 23'$		$0^h\ 36^m$		$+30°\ 31'$	
	s		″		s		″		s		″		s		″	
Jan. 0	58.942	120	79.60	70	38.215	268	78.69	50	41.034	162	33.51	74	7.633	154	69.48	74
10	58.822	118	80.30	60	37.947	268	78.19	99	40.872	163	32.77	104	7.479	155	68.74	102
20	58.704	112	80.90	48	37.679	257	77.20	144	40.709	157	31.73	131	7.324	150	67.72	126
30	58.592	99	81.38	34	37.422	235	75.76	183	40.552	143	30.42	153	7.174	137	66.46	145
Febr. 9	58.493	82	81.72	17	37.187	200	73.93	216	40.409	121	28.89	168	7.037	117	65.01	158
19	58.411	60	81.89	1	36.987	155	71.77	238	40.288	93	27.21	176	6.920	90	63.43	165
29	58.351	31	81.88	22	36.832	101	69.39	251	40.195	56	25.45	177	6.830	56	61.78	163
März 10	58.320	1	81.66	45	36.731	38	66.88	253	40.139	14	23.68	169	6.774	14	60.15	155
20	58.321	38	81.21	69	36.693	30	64.35	246	40.125	33	21.99	153	6.760	31	58.60	138
30	58.359	78	80.52	93	36.723	101	61.89	227	40.158	83	20.46	131	6.791	79	57.22	115
Apr. 9	58.437	118	79.59	116	36.824	171	59.62	200	40.241	134	19.15	101	6.870	128	56.07	87
19	58.555	159	78.43	139	36.995	239	57.62	165	40.375	183	18.14	68	6.998	176	55.20	53
29	58.714	197	77.04	160	37.234	300	55.97	123	40.558	229	17.46	30	7.174	221	54.67	18
Mai 9	58.911	232	75.44	177	37.534	353	54.74	78	40.787	269	17.16	9	7.395	261	54.49	21
19	59.143	260	73.67	190	37.887	397	53.96	30	41.056	302	17.25	49	7.656	294	54.70	58
29	59.403	283	71.77	199	38.284	428	53.66	19	41.358	328	17.74	88	7.950	319	55.28	95
Juni 8	59.686	299	69.78	202	38.712	448	53.85	68	41.686	343	18.62	123	8.269	335	56.23	129
18	59.985	305	67.76	200	39.160	456	54.53	115	42.029	350	19.85	156	8.604	343	57.52	159
28	60.290	304	65.76	193	39.616	451	55.68	157	42.379	347	21.41	184	8.947	340	59.11	185
Juli 8	60.594	295	63.83	180	40.067	434	57.25	197	42.726	336	23.25	208	9.287	329	60.96	206
18	60.889	278	62.03	163	40.501	408	59.22	231	43.062	317	25.33	226	9.616	311	63.02	222
28	61.167	255	60.40	143	40.909	374	61.53	259	43.379	290	27.59	239	9.927	286	65.24	232
Aug. 7	61.422	227	58.97	118	41.283	331	64.12	282	43.669	257	29.98	246	10.213	254	67.56	237
17	61.649	193	57.79	91	41.614	284	66.94	298	43.926	221	32.44	247	10.467	219	69.93	237
27	61.842	157	56.88	64	41.898	231	69.92	308	44.147	181	34.91	244	10.686	180	72.30	231
Sept. 6	61.999	120	56.24	37	42.129	177	73.00	312	44.328	141	37.35	236	10.866	141	74.61	222
16	62.119	83	55.87	10	42.306	122	76.12	309	44.469	100	39.71	223	11.007	102	76.83	208
26	62.202	46	55.77	14	42.428	68	79.21	300	44.569	60	41.94	207	11.109	63	78.91	192
Okt. 5	[28] 62.248	14	55.91	35	[29] 42.496	16	82.21	286	[29] 44.629	22	44.01	188	[30] 11.172	26	80.83	171
15	62.262	17	56.26	53	42.512	35	85.07	265	44.651	12	45.89	164	11.198	8	82.54	149
25	62.245	43	56.79	67	42.477	82	87.72	238	44.639	44	47.53	139	11.190	39	84.03	124
Nov. 4	62.202	65	57.46	77	42.395	126	90.10	206	44.595	73	48.92	111	11.151	66	85.27	97
14	62.137	83	58.23	83	42.269	165	92.16	168	44.522	98	50.03	80	11.085	91	86.24	68
24	62.054	99	59.06	85	42.104	200	93.84	126	44.424	120	50.83	48	10.994	112	86.92	38
Dez. 4	61.955	109	59.91	85	41.904	230	95.10	80	44.304	138	51.31	15	10.882	130	87.30	7
14	61.846	117	60.76	82	41.674	252	95.90	31	44.166	152	51.46	20	10.752	144	87.37	25
24	61.729	121	61.58	75	41.422	267	96.21	19	44.014	162	51.26	53	10.608	153	87.12	55
34	61.608		62.33		41.155		96.02		43.852		50.73		10.455		86.57	
Mittl. Ort	58.545		78.86		36.896		61.22		40.144		21.54		6.769		58.51	
sec δ, tg δ	1.003		−0.075		1.684		+1.355		1.198		+0.659		1.161		+0.590	
a, *a′*	+3.1		+19.9		+3.3		+19.8		+3.2		+19.8		+3.2		+19.8	
b, *b′*	0.00		− 0.12		+0.09		− 0.15		+0.04		− 0.15		+0.04		− 0.16	

Tag	21) α Cassiopeiae AR.		21) α Cassiopeiae Dekl.		22) β Ceti AR.		22) β Ceti Dekl.		25) ο Cassiopeiae AR.		25) ο Cassiopeiae Dekl.		24) 21 Cassiopeiae AR.		24) 21 Cassiopeiae Dekl.	
1940	0h 37m		+56° 12′		0h 40m		−18° 18′		0h 41m		+47° 57′		0h 41m		+74° 39′	
	s		"		s		"		s		"		s		"	
Jan. 0	6.704	292	49.06	42	35.024	134	62.37	57	23.461	226	38.69	51	41.75	72	58.66	0
10	6.412	295	48.64	93	34.890	133	62.94	33	23.235	229	38.18	94	41.03	73	58.66	62
20	6.117	282	47.71	140	34.757	127	63.27	6	23.006	222	37.24	135	40.30	69	58.04	120
30	5.835	258	46.31	181	34.630	116	63.33	21	22.784	204	35.89	170	39.61	64	56.84	175
Febr. 9	5.577	223	44.50	216	34.514	99	63.12	47	22.580	177	34.19	199	38.97	56	55.09	222
19	5.354	175	42.34	242	34.415	77	62.65	75	22.403	140	32.20	219	38.41	45	52.87	260
29	5.179	116	39.92	257	34.338	49	61.90	101	22.263	94	30.01	231	37.96	31	50.27	286
März 10	5.063	49	37.35	261	34.289	16	60.89	126	22.169	39	27.70	231	37.65	17	47.41	302
20	5.014	23	34.74	255	34.273	21	59.63	151	22.130	21	25.39	222	37.48	2	44.39	305
30	5.037	99	32.19	238	34.294	62	58.12	174	22.151	83	23.17	205	37.46	14	41.34	295
Apr. 9	5.136	175	29.81	212	34.356	104	56.38	193	22.234	147	21.12	177	37.60	30	38.39	276
19	5.311	246	27.69	179	34.460	147	54.45	210	22.381	208	19.35	144	37.90	44	35.63	245
29	5.557	312	25.90	137	34.607	187	52.35	223	22.589	264	17.91	105	38.34	57	33.18	206
Mai 9	5.869	370	24.53	92	34.794	225	50.12	230	22.853	314	16.86	61	38.91	69	31.12	161
19	6.239	415	23.61	43	35.019	257	47.82	232	23.167	355	16.25	16	39.60	77	29.51	110
29	6.654	450	23.18	7	35.276	283	45.50	230	23.522	385	16.09	30	40.37	85	28.41	57
Juni 8	7.104	472	23.25	56	35.559	301	43.20	220	23.907	406	16.39	76	41.22	89	27.84	1
18	7.576	480	23.81	104	35.860	312	41.00	205	24.313	414	17.15	119	42.11	90	27.83	53
28	8.056	476	24.85	149	36.172	315	38.95	185	24.727	413	18.34	158	43.01	90	28.36	106
Juli 8	8.532	460	26.34	190	36.487	309	37.10	160	25.140	400	19.92	194	43.91	87	29.42	157
18	8.992	434	28.24	226	36.796	294	35.50	130	25.540	377	21.86	225	44.78	83	30.99	203
28	9.426	398	30.50	257	37.090	273	34.20	98	25.917	348	24.11	249	45.61	76	33.02	245
Aug. 7	9.824	353	33.07	282	37.363	245	33.22	63	26.265	311	26.60	269	46.37	67	35.47	281
17	10.177	303	35.89	300	37.608	212	32.59	28	26.576	268	29.29	282	47.04	59	38.28	310
27	10.480	249	38.89	312	37.820	175	32.31	8	26.844	223	32.11	289	47.63	48	41.38	334
Sept. 6	10.729	193	42.01	318	37.995	138	32.39	41	27.067	174	35.00	291	48.11	36	44.72	351
16	10.922	135	45.19	317	38.133	98	32.80	72	27.241	126	37.91	286	48.47	25	48.23	360
26	11.057	76	48.36	310	38.231	59	33.52	97	27.367	78	40.77	277	48.72	13	51.83	361
Okt. 5	11.133	20	51.46	297	38.290	23	34.49	118	27.445	31	43.54	261	48.85	1	55.44	355
15	11.153	33	54.43	276	38.313	10	35.67	132	27.476	13	46.15	241	48.86	11	58.99	342
25	11.120	85	57.19	251	38.303	40	36.99	140	27.463	56	48.56	216	48.75	23	62.41	320
Nov. 4	11.035	133	59.70	219	38.263	65	38.39	141	27.407	94	50.72	185	48.52	34	65.61	290
14	10.902	177	61.89	182	38.198	88	39.80	138	27.313	129	52.57	150	48.18	44	68.51	252
24	10.725	215	63.71	139	38.110	104	41.18	127	27.184	161	54.07	111	47.74	53	71.03	207
Dez. 4	10.510	248	65.10	92	38.006	118	42.45	112	27.023	187	55.18	68	47.21	62	73.10	156
14	10.262	273	66.02	42	37.888	128	43.57	94	26.836	209	55.86	24	46.59	68	74.66	99
24	9.989	291	66.44	9	37.760	133	44.51	72	26.627	224	56.10	22	45.91	72	75.65	39
34	9.698		66.35		37.627		45.23		26.403		55.88		45.19		76.04	
Mittl. Ort	5.259		31.14		34.703		56.25		22.221		22.90		38.82		37.83	
sec δ, tg δ	1.798		+1.494		1.053		−0.331		1.493		+1.109		3.780		+3.646	
a, *a′*	+3.4		+19.8		+3.0		+19.7		+3.3		+19.7		+4.0		+19.7	
b, *b′*	+0.10		− 0.16		−0.02		− 0.18		+0.07		− 0.18		+0.24		− 0.18	

Scheinbare Sternörter 1940

Tag	27) ζ Andromedae AR.		27) ζ Andromedae Dekl.		32) γ Cassiopeiae AR.		32) γ Cassiopeiae Dekl.	
1940	$0^h\ 44^m$		$+23°\ 56'$		$0^h\ 53^m$		$+60°\ 23'$	
	s		"		s		"	
Jan. 0	9.990	141	36.57	73	5.92	34	50.43	15
10	9.849	143	35.84	94	5.58	34	50.28	69
20	9.706	139	34.90	111	5.24	34	49.59	119
30	9.567	130	33.79	124	4.90	32	48.40	166
Febr. 9	9.437	113	32.55	133	4.58	28	46.74	206
19	9.324	88	31.22	134	4.30	22	44.68	237
29	9.236	57	29.88	130	4.08	17	42.31	258
März 10	9.179	21	28.58	119	3.91	9	39.73	268
20	9.158	22	27.39	101	3.82	1	37.05	267
30	9.180	67	26.38	79	3.81	8	34.38	256
Apr. 9	9.247	114	25.59	52	3.89	16	31.82	234
19	9.361	160	25.07	20	4.05	24	29.48	204
29	9.521	203	24.87	13	4.29	32	27.44	166
Mai 9	9.724	242	25.00	47	4.61	39	25.78	123
19	9.966	275	25.47	80	5.00	44	24.55	75
29	10.241	301	26.27	112	5.44	49	23.80	25
Juni 8	10.542	318	27.39	141	5.93	51	23.55	25
18	10.860	326	28.80	165	6.44	53	23.80	75
28	11.186	326	30.45	186	6.97	53	24.55	122
Juli 8	11.512	318	32.31	201	7.50	52	25.77	166
18	11.830	302	34.32	211	8.02	49	27.43	206
28	12.132	278	36.43	216	8.51	46	29.49	241
Aug. 7	12.410	250	38.59	216	8.97	41	31.90	270
17	12.660	217	40.75	210	9.38	36	34.60	293
27	12.877	181	42.85	201	9.74	30	37.53	310
Sept. 6	13.058	144	44.86	189	10.04	25	40.63	320
16	13.202	106	46.75	173	10.29	18	43.83	325
26	[2] 13.308	70	48.48	154	[4] 10.47	11	47.08	322
Okt. 5	13.378	35	50.02	133	10.58	5	50.30	313
15	13.413	3	51.35	112	10.63	1	53.43	298
25	13.416	26	52.47	89	10.62	7	56.41	275
Nov. 4	13.390	53	53.36	65	10.55	12	59.16	245
14	13.337	77	54.01	40	10.43	18	61.61	211
24	13.260	97	54.41	15	10.25	24	63.72	169
Dez. 4	13.163	115	54.56	10	10.01	27	65.41	122
14	13.048	128	54.46	34	9.74	30	66.63	72
24	12.920	138	54.12	59	9.44	34	67.35	19
34	12.782		53.53		9.10		67.54	
Mittl. Ort	9.163		28.09		4.11		32.36	
sec δ, tg δ	1.094		+0.444		2.024		+1.760	
a, a′	+3.2		+19.7		+3.6		+19.5	
b, b′	+0.03		− 0.19		+0.11		− 0.23	

Tag	33) μ Andromedae AR.		33) μ Andromedae Dekl.		35) α Sculptoris AR.		35) α Sculptoris Dekl.	
1940	$0^h\ 53^m$		$+38°\ 10'$		$0^h\ 55^m$		$-29°\ 40'$	
	s		"		s		"	
Jan. 0	25.981	178	40.24	52	43.240	160	63.09	52
10	25.803	182	39.72	87	43.080	160	63.61	15
20	25.621	180	38.85	120	42.920	155	63.76	21
30	25.441	170	37.65	147	42.765	145	63.55	57
Febr. 9	25.271	149	36.18	168	42.620	128	62.98	93
19	25.122	122	34.50	183	42.492	104	62.05	126
29	25.000	84	32.67	189	42.388	76	60.79	158
März 10	24.916	41	30.78	187	42.312	41	59.21	185
20	24.875	9	28.91	177	42.271	2	57.36	211
30	24.884	62	27.14	158	42.269	41	55.25	233
Apr. 9	24.946	117	25.56	132	42.310	87	52.92	250
19	25.063	171	24.24	101	42.397	133	50.42	262
29	25.234	222	23.23	65	42.530	178	47.80	269
Mai 9	25.456	266	22.58	26	42.708	219	45.11	271
19	25.722	305	22.32	15	42.927	257	42.40	265
29	26.027	335	22.47	55	43.184	287	39.75	253
Juni 8	26.362	355	23.02	93	43.471	310	37.22	236
18	26.717	366	23.95	129	43.781	326	34.86	212
28	27.083	367	25.24	163	44.107	332	32.74	182
Juli 8	27.450	359	26.87	190	44.439	329	30.92	147
18	27.809	341	28.77	213	44.768	317	29.45	109
28	28.150	318	30.90	232	45.085	298	28.36	68
Aug. 7	28.468	287	33.22	244	45.383	272	27.68	25
17	28.755	251	35.66	251	45.655	238	27.43	18
27	29.006	212	38.17	253	45.893	201	27.61	60
Sept. 6	29.218	171	40.70	250	46.094	160	28.21	97
16	29.389	130	43.20	242	46.254	118	29.18	131
26	[4] 29.519	89	45.62	229	[5] 46.372	75	30.49	159
Okt. 5	29.608	49	47.91	213	46.447	35	32.08	180
15	29.657	11	50.04	193	46.482	4	33.88	192
25	29.668	25	51.97	169	46.478	40	35.80	196
Nov. 4	29.643	57	53.66	142	46.438	70	37.76	192
14	29.586	88	55.08	113	46.368	96	39.68	181
24	29.498	115	56.21	79	46.272	118	41.49	161
Dez. 4	29.383	138	57.00	44	46.154	136	43.10	137
14	29.245	159	57.44	8	46.018	149	44.47	107
24	29.086	173	57.52	30	45.869	157	45.54	73
34	28.913		57.22		45.712		46.27	
Mittl. Ort	24.857		27.68		42.963		52.80	
sec δ, tg δ	1.272		+0.786		1.151		−0.570	
a, a′	+3.3		+19.5		+2.9		+19.5	
b, b′	+0.05		− 0.23		−0.04		− 0.24	

Tag	36) ε Piscium AR.	Δ	Dekl.	Δ	38) β Phoenicis *m* AR.	Δ	Dekl.	Δ	42) β Andromedae AR.	Δ	Dekl.	Δ	45) υ Piscium AR.	Δ	Dekl.	Δ
1940	$0^h\ 59^m$		$+7°\ 34'$		$1^h\ 3^m$		$-47°\ 1'$		$1^h\ 6^m$		$+35°\ 18'$		$1^h\ 16^m$		$+26°\ 56'$	
	s		″		s		″		s		″		s		″	
Jan. 0	50.282	123	5.33	74	24.638	236	97.48	32	23.036	166	21.82	46	10.803	143	65.36	51
10	50.159	128	4.59	77	24.402	235	97.80	18	22.870	173	21.36	79	10.660	153	64.85	75
20	50.031	127	3.82	76	24.167	227	97.62	67	22.697	175	20.57	107	10.507	156	64.10	95
30	49.904	121	3.06	73	23.940	211	96.95	114	22.522	167	19.50	133	10.351	151	63.15	113
Febr. 9	49.783	108	2.33	67	23.729	189	95.81	159	22.355	151	18.17	153	10.200	140	62.02	126
19	49.675	89	1.66	56	23.540	159	94.22	199	22.204	127	16.64	167	10.060	119	60.76	132
29	49.586	64	1.10	43	23.381	123	92.23	234	22.077	93	14.97	172	9.941	90	59.44	134
März 10	49.522	31	0.67	26	23.258	80	89.89	264	21.984	52	13.25	171	9.851	55	58.10	128
20	49.491	6	0.41	5	23.178	31	87.25	289	21.932	5	11.54	162	9.796	13	56.82	116
30	49.497	47	0.36	18	23.147	22	84.36	308	21.927	46	9.92	144	9.783	34	55.66	98
Apr. 9	49.544	90	0.54	43	23.169	78	81.28	320	21.973	99	8.48	120	9.817	82	54.68	75
19	49.634	133	0.97	70	23.247	133	78.08	325	22.072	152	7.28	91	9.899	132	53.93	47
29	49.767	175	1.67	96	23.380	188	74.83	324	22.224	203	6.37	57	10.031	179	53.46	17
Mai 9	49.942	212	2.63	120	23.568	240	71.59	315	22.427	248	5.80	21	10.210	222	53.29	17
19	50.154	246	3.83	142	23.808	287	68.44	298	22.675	287	5.59	17	10.432	261	53.46	49
29	50.400	272	5.25	161	24.095	327	65.46	275	22.962	318	5.76	55	10.693	291	53.95	81
Juni 8	50.672	292	6.86	176	24.422	358	62.71	245	23.280	341	6.31	91	10.984	314	54.76	112
18	50.964	304	8.62	186	24.780	380	60.26	209	23.621	354	7.22	125	11.298	328	55.88	138
28	51.268	307	10.48	191	25.160	392	58.17	167	23.975	358	8.47	155	11.626	334	57.26	162
Juli 8	51.575	303	12.39	191	25.552	393	56.50	120	24.333	352	10.02	181	11.960	331	58.88	181
18	51.878	290	14.30	186	25.945	383	55.30	71	24.685	339	11.83	203	12.291	320	60.69	194
28	52.168	271	16.16	176	26.328	363	54.59	19	25.024	317	13.86	218	12.611	301	62.63	204
Aug. 7	52.439	247	17.92	162	26.691	333	54.40	33	25.341	289	16.04	230	12.912	277	64.67	208
17	52.686	218	19.54	144	27.024	295	54.73	84	25.630	256	18.34	236	13.189	248	66.75	207
27	52.904	185	20.98	124	27.319	249	55.57	131	25.886	221	20.70	236	13.437	216	68.82	202
Sept. 6	53.089	151	22.22	102	27.568	199	56.88	173	26.107	182	23.06	232	13.653	180	70.84	193
16	53.240	116	23.24	79	27.767	145	58.61	209	26.289	143	25.38	225	13.833	144	72.77	181
26	53.356	82	24.03	56	27.912	90	60.70	237	26.432	104	27.63	212	13.977	109	74.58	166
Okt. 6	6 53.438	50	24.59	34	7 28.002	36	63.07	255	8 26.536	65	29.75	196	10 14.086	73	76.24	149
15	53.488	19	24.93	14	28.038	17	65.62	263	26.601	28	31.71	178	14.159	40	77.73	130
25	53.507	10	25.07	5	28.021	66	68.25	260	26.629	6	33.49	155	14.199	8	79.03	109
Nov. 4	53.497	35	25.02	21	27.955	110	70.85	248	26.623	39	35.04	131	14.207	22	80.12	87
14	53.462	57	24.81	36	27.845	147	73.33	225	26.584	68	36.35	103	14.185	50	80.99	63
24	53.405	77	24.45	47	27.698	178	75.58	193	26.516	96	37.38	73	14.135	76	81.62	40
Dez. 4	53.328	95	23.98	58	27.520	203	77.51	154	26.420	123	38.11	42	14.059	99	82.02	15
14	53.233	109	23.40	65	27.317	221	79.05	111	26.297	143	38.53	8	13.960	120	82.17	11
24	53.124	119	22.75	72	27.096	232	80.16	63	26.154	160	38.61	25	13.840	137	82.06	35
34	53.005		22.03		26.864		80.79		25.994		38.36		13.703		81.71	
Mittl. Ort	49.560		3.20		24.571		82.37		21.871		10.72		9.719		57.34	
sec δ, tg δ	1.009		+0.133		1.467		−1.074		1.225		+0.708		1.122		+0.508	
a, *a′*	+3.1		+19.4		+2.7		+19.3		+3.3		+19.2		+3.3		+18.9	
b, *b′*	+0.01		− 0.26		−0.07		− 0.27		+0.05		− 0.29		+0.03		− 0.33	

Scheinbare Sternörter 1940

Tag	47) ϑ Ceti				48) δ Cassiopeiae				50) η Piscium				51) 40 Cassiopeiae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$1^h\ 21^m$		$-8°\ 29'$		$1^h\ 21^m$		$+59°\ 55'$		$1^h\ 28^m$		$+15°\ 2'$		$1^h\ 33^m$		$+72°\ 43'$	
	s		"		s		"		s		"		s		"	
Jan. 0	2.051	126	37.22	80	54.385	321	43.57	18	17.073	125	17.09	62	44.22	60	84.57	65
10	1.925	133	38.02	63	54.064	339	43.75	34	16.948	136	16.47	72	43.62	63	85.22	5
20	1.792	136	38.65	46	53.725	343	43.41	86	16.812	140	15.75	80	42.99	64	85.27	54
30	1.656	132	39.11	26	53.382	331	42.55	133	16.672	140	14.95	85	42.35	63	84.73	111
Febr. 9	1.524	122	39.37	5	53.051	304	41.22	176	16.532	131	14.10	85	41.72	58	83.62	164
19	1.402	106	39.42	17	52.747	263	39.46	212	16.401	114	13.25	83	41.14	51	81.98	210
29	1.296	83	39.25	40	52.484	206	37.34	237	16.287	91	12.42	77	40.63	41	79.88	246
März 10	1.213	54	38.85	64	52.278	139	34.97	254	16.196	59	11.65	65	40.22	30	77.42	273
20	1.159	18	38.21	89	52.139	61	32.43	260	16.137	22	11.00	49	39.92	17	74.69	288
30	1.141	21	37.32	112	52.078	23	29.83	255	16.115	20	10.51	29	39.75	3	71.81	291
Apr. 9	1.162	63	36.20	136	52.101	108	27.28	240	16.135	64	10.22	5	39.72	11	68.90	284
19	1.225	107	34.84	157	52.209	193	24.88	215	16.199	110	10.17	19	39.83	25	66.06	266
29	1.332	150	33.27	176	52.402	273	22.73	184	16.309	155	10.36	47	40.08	38	63.40	237
Mai 9	1.482	189	31.51	192	52.675	345	20.89	145	16.464	197	10.83	74	40.46	50	61.03	202
19	1.671	225	29.59	204	53.020	408	19.44	101	16.661	234	11.57	99	40.96	61	59.01	160
29	1.896	256	27.55	210	53.428	458	18.43	55	16.895	265	12.56	124	41.57	70	57.41	113
Juni 8	2.152	279	25.45	211	53.886	495	17.88	7	17.160	289	13.80	144	42.27	76	56.28	63
18	2.431	295	23.34	207	54.381	520	17.81	41	17.449	304	15.24	161	43.03	81	55.65	11
28	2.726	303	21.27	197	54.901	529	18.22	87	17.753	312	16.85	174	43.84	83	55.54	40
Juli 8	3.029	303	19.30	183	55.430	526	19.09	132	18.065	312	18.59	182	44.67	83	55.94	91
18	3.332	295	17.47	162	55.956	510	20.41	172	18.377	304	20.41	184	45.50	82	56.85	139
28	3.627	280	15.85	137	56.466	483	22.13	209	18.681	289	22.25	182	46.32	78	58.24	183
Aug. 7	3.907	259	14.48	110	56.949	447	24.22	240	18.970	268	24.07	176	47.10	73	60.07	223
17	4.166	233	13.38	79	57.396	403	26.62	267	19.238	242	25.83	165	47.83	66	62.30	259
27	4.399	202	12.59	48	57.799	353	29.29	287	19.480	213	27.48	152	48.49	59	64.89	289
Sept. 6	4.601	169	12.11	16	58.152	296	32.16	301	19.693	181	29.00	134	49.08	50	67.78	312
16	4.770	135	11.95	14	58.448	238	35.17	310	19.874	147	30.34	116	49.58	41	70.90	330
26	4.905	101	12.09	42	58.686	178	38.27	312	20.021	114	31.50	97	49.99	31	74.20	341
Okt. 6	5.006	66	12.51	66	58.864	115	41.39	308	20.135	82	32.47	76	50.30	21	77.61	345
15	11 5.072	35	13.17	85	12 58.979	54	44.47	298	13 20.217	50	33.23	57	15 50.51	10	81.06	341
25	5.107	5	14.02	101	59.033	7	47.45	280	20.267	21	33.80	38	50.61	2	84.47	330
Nov. 4	5.112	23	15.03	110	59.026	67	50.25	256	20.288	8	34.18	19	50.59	12	87.77	311
14	5.089	48	16.13	114	58.959	125	52.81	227	20.280	34	34.37	3	50.47	22	90.88	284
24	5.041	70	17.27	114	58.834	180	55.08	191	20.246	58	34.40	14	50.25	33	93.72	248
Dez. 4	4.971	89	18.41	108	58.654	230	56.99	148	20.188	81	34.26	28	49.92	43	96.20	206
14	4.882	107	19.49	100	58.424	273	58.47	102	20.107	101	33.98	42	49.49	51	98.26	156
24	4.775	120	20.49	88	58.151	309	59.49	51	20.006	117	33.56	55	48.98	57	99.82	102
34	4.655		21.37		57.842		60.00		19.889		33.01		48.41		100.84	
Mittl. Ort	1.380		32.85		52.249		27.10		16.089		13.62		40.53		66.76	
sec δ, tg δ	1.011		−0.150		1.995		+1.727		1.036		+0.269		3.369		+3.218	
a, *a′*	+3.0		+18.8		+3.9		+18.8		+3.2		+18.6		+4.8		+18.4	
b, *b′*	−0.01		− 0.35		+0.11		− 0.35		+0.02		− 0.38		+0.20		− 0.40	

Tag	52) 51 Andromedae AR.		Dekl.		54) α Eridani AR.		Dekl.		55) 43 Cassiopeiae AR.		Dekl.		57) φ Persei AR.		Dekl.	
1940	1h 34m		+48° 19′		1h 35m		−57° 31′		1h 37m		+67° 44′		1h 39m		+50° 23′	
	s		″		s		″		s		″		s		″	
Jan. 0	19.532	216	43.35	4	29.110	333	105.66	54	54.97	45	42.90	57	54.994	226	27.79	15
10	19.316	233	43.39	38	28.777	340	106.20	3	54.52	48	43.47	1	54.768	246	27.94	29
20	19.083	240	43.01	81	28.437	337	106.17	59	54.04	48	43.48	56	54.522	255	27.65	73
30	18.843	238	42.20	120	28.100	323	105.58	113	53.56	48	42.92	111	54.267	253	26.92	114
Febr. 9	18.605	223	41.00	154	27.777	301	104.45	163	53.08	44	41.81	160	54.014	239	25.78	151
19	18.382	197	39.46	181	27.476	268	102.82	209	52.64	39	40.21	203	53.775	213	24.27	180
29	18.185	158	37.65	201	27.208	226	100.73	250	52.25	32	38.18	237	53.562	174	22.47	202
März 10	18.027	110	35.64	212	26.982	174	98.23	285	51.93	24	35.81	262	53.388	124	20.45	216
20	17.917	54	33.52	215	26.808	117	95.38	312	51.69	13	33.19	276	53.264	66	18.29	221
30	17.863	9	31.37	207	26.691	53	92.26	334	51.56	3	30.43	278	53.198	1	16.08	216
Apr. 9	17.872	74	29.30	192	26.638	16	88.92	348	51.53	9	27.65	269	53.197	67	13.92	201
19	17.946	140	27.38	168	26.654	86	85.44	354	51.62	20	24.96	251	53.264	136	11.91	180
29	18.086	203	25.70	138	26.740	156	81.90	352	51.82	30	22.45	223	53.400	202	10.11	150
Mai 9	18.289	261	24.32	102	26.896	224	78.38	343	52.12	41	20.22	188	53.602	264	8.61	115
19	18.550	313	23.30	63	27.120	288	74.95	326	52.53	49	18.34	146	53.866	317	7.46	77
29	18.863	355	22.67	22	27.408	344	71.69	301	53.02	56	16.88	101	54.183	363	6.69	36
Juni 8	19.218	387	22.45	20	27.752	391	68.68	268	53.58	61	15.87	52	54.546	397	6.33	7
18	19.605	409	22.65	61	28.143	429	66.00	229	54.19	65	15.35	2	54.943	420	6.40	50
28	20.014	419	23.26	101	28.572	454	63.71	184	54.84	67	15.33	48	55.363	433	6.90	90
Juli 8	20.433	419	24.27	138	29.026	467	61.87	134	55.51	67	15.81	96	55.796	435	7.80	127
18	20.852	410	25.65	170	29.493	467	60.53	79	56.18	66	16.77	141	56.231	426	9.07	163
28	21.262	391	27.35	199	29.960	454	59.74	23	56.84	63	18.18	183	56.657	407	10.70	193
Aug. 7	21.653	364	29.34	223	30.414	428	59.51	35	57.47	60	20.01	221	57.064	382	12.63	218
17	22.017	331	31.57	241	30.842	390	59.86	91	58.07	54	22.22	254	57.446	349	14.81	239
27	22.348	293	33.98	255	31.232	343	60.77	144	58.61	48	24.76	281	57.795	310	17.20	255
Sept. 6	22.641	252	36.53	263	31.575	286	62.21	192	59.09	42	27.57	303	58.105	268	19.75	266
16	22.893	207	39.16	266	31.861	222	64.13	234	59.51	34	30.60	319	58.373	223	22.41	270
26	23.100	162	41.82	264	32.083	155	66.47	266	59.85	26	33.79	328	58.596	177	25.11	270
Okt. 6	23.262	117	44.46	257	32.238	84	69.13	289	60.11	18	37.07	330	58.773	129	27.81	265
15*)	15 23.379	71	47.03	245	15 32.322	15	72.02	300	16 60.29	10	40.37	325	16 58.902	82	30.46	254
25	23.450	26	49.48	228	32.337	53	75.02	300	60.39	2	43.62	314	58.984	34	33.00	239
Nov. 4	23.476	18	51.76	205	32.284	116	78.02	288	60.41	7	46.76	294	59.018	13	35.39	218
14	23.458	61	53.81	178	32.168	174	80.90	265	60.34	15	49.70	267	59.005	58	37.57	192
24	23.397	101	55.59	149	31.994	223	83.55	231	60.19	23	52.37	233	58.947	102	39.49	160
Dez. 4	23.296	140	57.08	113	31.771	265	85.86	190	59.96	30	54.70	192	58.845	143	41.09	126
14	23.156	175	58.21	73	31.506	298	87.76	141	59.66	37	56.62	145	58.702	181	42.35	86
24	22.981	203	58.94	32	31.208	321	89.17	88	59.29	42	58.07	92	58.521	213	43.21	43
34	22.778		59.26		30.887		90.05		58.87		58.99		58.308		43.64	
Mittl. Ort	17.809		30.16		28.938		87.62		51.96		26.04		53.147		14.44	
sec δ, tg δ	1.504		+1.123		1.863		−1.572		2.640		+2.443		1.568		+1.208	
a, a′	+3.7		+18.4		+2.2		+18.3		+4.4		+18.2		+3.8		+18.2	
b, b′	+0.07		— 0.40		−0.10		— 0.40		+0.15		— 0.41		+0.07		— 0.42	

*) Bei Stern 55) und 57) lies Okt. 16.

Scheinbare Sternörter 1940

Tag	59) τ Ceti [1])				60) ο Piscium			
	AR.		Dekl.		AR.		Dekl.	
1940	$1^h\ 41^m$		−16° 14′		$1^h\ 42^m$		+8° 51′	
	s		″		s		″	
Jan. 0	17.483	137	77.97	84	14.274	119	24.18	67
10	17.346	146	78.81	59	14.155	131	23.51	70
20	17.200	151	79.40	33	14.024	139	22.81	70
30	17.049	151	79.73	5	13.885	140	22.11	69
Febr. 9	16.898	143	79.78	24	13.745	134	21.42	63
19	16.755	127	79.54	52	13.611	121	20.79	56
29	16.628	106	79.02	80	13.490	99	20.23	46
März 10	16.522	78	78.22	107	13.391	70	19.77	31
20	16.444	43	77.15	134	13.321	35	19.46	13
30	16.401	3	75.81	159	13.286	5	19.33	8
Apr. 9	16.398	40	74.22	182	13.291	48	19.41	30
19	16.438	84	72.40	201	13.339	94	19.71	54
29	16.522	129	70.39	217	13.433	138	20.25	79
Mai 9	16.651	171	68.22	230	13.571	180	21.04	102
19	16.822	210	65.92	236	13.751	218	22.06	125
29	17.032	243	63.56	238	13.969	250	23.31	143
Juni 8	17.275	270	61.18	233	14.219	276	24.74	160
18	17.545	289	58.85	223	14.495	293	26.34	172
28	17.834	301	56.62	206	14.788	304	28.06	178
Juli 8	18.135	304	54.56	184	15.092	306	29.84	181
18	18.439	300	52.72	157	15.398	301	31.65	177
28	18.739	288	51.15	126	15.699	288	33.42	170
Aug. 7	19.027	269	49.89	92	15.987	270	35.12	158
17	19.296	244	48.97	54	16.257	247	36.70	142
27	19.540	216	48.43	17	16.504	219	38.12	123
Sept. 6	19.756	184	48.26	20	16.723	189	39.35	103
16	19.940	149	48.46	54	16.912	157	40.38	81
26	20.089	114	49.00	85	17.069	126	41.19	58
Okt. 6	20.203	79	49.85	111	17.195	94	41.77	37
16	$_{16}$20.282	46	50.96	132	$_{17}$17.289	63	42.14	17
25	20.328	13	52.28	145	17.352	33	42.31	2
Nov. 4	20.341	17	53.73	153	17.385	5	42.29	17
14	20.324	44	55.26	153	17.390	22	42.12	31
24	20.280	70	56.79	146	17.368	47	41.81	42
Dez. 4	20.210	93	58.25	135	17.321	70	41.39	51
14	20.117	112	59.60	118	17.251	92	40.88	59
24	20.005	129	60.78	98	17.159	110	40.29	64
34	19.876		61.76		17.049		39.65	
Mittl. Ort	16.790		70.15		13.288		23.47	
sec δ, tg δ	1.042		−0.292		1.012		+0.156	
a, *a′*	+2.9		+18.1		+3.2		+18.1	
b, *b′*	−0.02		− 0.43		+0.01		− 0.43	

Tag	61) ε Sculptoris				62) ζ Ceti			
	AR.		Dekl.		AR.		Dekl.	
1940	$1^h\ 42^m$		−25° 20′		$1^h\ 48^m$		−10° 37′	
	s		″		s		″	
Jan. 0	50.784	149	76.97	89	30.642	125	56.78	89
10	50.635	160	77.86	57	30.517	136	57.67	70
20	50.475	164	78.43	22	30.381	144	58.37	49
30	50.311	163	78.65	14	30.237	146	58.86	26
Febr. 9	50.148	155	78.51	49	30.091	139	59.12	4
19	49.993	140	78.02	84	29.952	127	59.16	21
29	49.853	117	77.18	116	29.825	107	58.95	46
März 10	49.736	88	76.02	148	29.718	80	58.49	72
20	49.648	52	74.54	177	29.638	46	57.77	96
30	49.596	11	72.77	202	29.592	8	56.81	121
Apr. 9	49.585	34	70.75	224	29.584	34	55.60	145
19	49.619	80	68.51	243	29.618	79	54.15	166
29	49.699	126	66.08	256	29.697	123	52.49	185
Mai 9	49.825	172	63.52	264	29.820	166	50.64	201
19	49.997	212	60.88	266	29.986	204	48.63	212
29	50.209	248	58.22	261	30.190	238	46.51	217
Juni 8	50.457	277	55.61	250	30.428	265	44.34	219
18	50.734	300	53.11	233	30.693	286	42.15	213
28	51.034	313	50.78	210	30.979	298	40.02	203
Juli 8	51.347	319	48.68	180	31.277	302	37.99	187
18	51.666	316	46.88	145	31.579	300	36.12	165
28	51.982	305	45.43	107	31.879	289	34.47	139
Aug. 7	52.287	287	44.36	66	32.168	272	33.08	109
17	52.574	262	43.70	23	32.440	250	31.99	77
27	52.836	232	43.47	20	32.690	223	31.22	43
Sept. 6	53.068	199	43.67	62	32.913	192	30.79	9
16	53.267	163	44.29	100	33.105	161	30.70	24
26	53.430	125	45.29	133	33.266	127	30.94	54
Okt. 6	53.555	87	46.62	160	33.393	94	31.48	80
16	$_{17}$53.642	50	48.22	181	$_{18}$33.487	62	32.28	102
25	53.692	15	50.03	193	33.549	31	33.30	118
Nov. 4	53.707	18	51.96	196	33.580	1	34.48	127
14	53.689	49	53.92	193	33.581	27	35.75	132
24	53.640	77	55.85	181	33.554	52	37.07	131
Dez. 4	53.563	101	57.66	162	33.502	76	38.38	124
14	53.462	123	59.28	138	33.426	97	39.62	113
24	53.339	141	60.66	109	33.329	116	40.75	99
34	53.198		61.75		33.213		41.74	
Mittl. Ort	50.150		66.41		29.832		50.67	
sec δ, tg δ	1.107		−0.474		1.018		−0.188	
a, *a′*	+2.8		+18.1		+3.0		+17.8	
b, *b′*	−0.03		− 0.43		−0.01		− 0.46	

[1]) Die jährliche Parallaxe (0.″315) ist bereits berücksichtigt.

Tag	64) α Trianguli AR.		64) α Trianguli Dekl.		63) ε Cassiopeiae AR.		63) ε Cassiopeiae Dekl.		65) ξ Piscium AR.		65) ξ Piscium Dekl.		67) ψ Phoenicis AR.		67) ψ Phoenicis Dekl.	
1940	1h 49m		+29° 17′		1h 50m		+63° 22′		1h 50m		+2° 53′		1h 51m		−46° 35′	
	s		″		s		″		s		″		s		″	
Jan. 0	40.578	140	21.59	28	5.92	36	47.75	61	27.738	117	29.99	75	15.005	235	61.47	87
10	40.438	157	21.31	52	5.56	38	48.36	7	27.621	130	29.24	71	14.770	247	62.34	37
20	40.281	167	20.79	75	5.18	40	48.43	47	27.491	139	28.53	64	14.523	250	62.71	15
30	40.114	169	20.04	95	4.78	39	47.96	99	27.352	141	27.89	56	14.273	247	62.56	65
Febr. 9	39.945	163	19.09	112	4.39	38	46.97	146	27.211	136	27.33	45	14.026	235	61.91	113
19	39.782	148	17.97	124	4.01	34	45.51	187	27.075	125	26.88	33	13.791	213	60.78	158
29	39.634	124	16.73	130	3.67	28	43.64	221	26.950	104	26.55	17	13.578	185	59.20	200
März 10	39.510	90	15.43	130	3.39	22	41.43	245	26.846	77	26.38	0	13.393	147	57.20	236
20	39.420	49	14.13	124	3.17	13	38.98	259	26.769	44	26.38	21	13.246	102	54.84	267
30	39.371	3	12.89	111	3.04	4	36.39	263	26.725	5	26.59	42	13.144	51	52.17	293
Apr. 9	39.368	47	11.78	93	3.00	6	33.76	256	26.720	38	27.01	65	13.093	4	49.24	313
19	39.415	99	10.85	70	3.06	15	31.20	238	26.758	83	27.66	88	13.097	61	46.11	326
29	39.514	149	10.15	43	3.21	25	28.82	212	26.841	127	28.54	111	13.158	119	42.85	331
Mai 9	39.663	197	9.72	13	3.46	33	26.70	180	26.968	169	29.65	132	13.277	175	39.54	330
19	39.860	239	9.59	19	3.79	41	24.90	141	27.137	207	30.97	151	13.452	228	36.24	320
29	40.099	276	9.78	49	4.20	47	23.49	98	27.344	241	32.48	166	13.680	276	33.04	303
Juni 8	40.375	304	10.27	79	4.67	52	22.51	51	27.585	267	34.14	178	13.956	316	30.01	280
18	40.679	324	11.06	108	5.19	55	22.00	4	27.852	287	35.92	184	14.272	348	27.21	248
28	41.003	336	12.14	132	5.74	58	21.96	43	28.139	298	37.76	186	14.620	370	24.73	209
Juli 8	41.339	339	13.46	154	6.32	58	22.39	89	28.437	302	39.62	182	14.990	382	22.64	166
18	41.678	334	15.00	171	6.90	58	23.28	132	28.739	298	41.44	174	15.372	384	20.98	117
28	42.012	321	16.71	182	7.48	56	24.60	172	29.037	288	43.18	161	15.756	375	19.81	65
Aug. 7	42.333	302	18.53	191	8.04	53	26.32	209	29.325	271	44.79	143	16.131	357	19.16	11
17	42.635	277	20.44	194	8.57	48	28.41	239	29.596	248	46.22	121	16.488	329	19.05	44
27	42.912	249	22.38	193	9.05	44	30.80	265	29.844	223	47.43	98	16.817	294	19.49	96
Sept. 6	43.161	217	24.31	188	9.49	38	33.45	286	30.067	193	48.41	74	17.111	251	20.45	145
16	43.378	183	26.19	179	9.87	33	36.31	301	30.260	163	49.15	48	17.362	205	21.90	189
26	43.561	149	27.98	169	10.20	25	39.32	309	30.423	131	49.63	22	17.567	154	23.79	225
Okt. 6	43.710	115	29.67	155	10.45	19	42.41	312	30.554	100	49.85	0	17.721	101	26.04	254
16	43.825	81	31.22	139	10.64	13	45.53	308	30.654	69	49.85	21	17.822	49	28.58	272
	19				19				19				19			
25	43.906	47	32.61	121	10.77	5	48.61	297	30.723	39	49.64	39	17.871	2	31.30	278
Nov. 4	43.953	14	33.82	103	10.82	2	51.58	280	30.762	11	49.25	53	17.869	50	34.08	275
14	43.967	18	34.85	82	10.80	9	54.38	255	30.773	17	48.72	64	17.819	95	36.83	260
24	43.949	49	35.67	61	10.71	16	56.93	224	30.756	42	48.08	71	17.724	135	39.43	236
Dez. 4	43.900	77	36.28	37	10.55	22	59.17	187	30.714	66	47.37	75	17.589	170	41.79	203
14	43.823	105	36.65	13	10.33	28	61.04	142	30.648	88	46.62	77	17.419	199	43.82	162
24	43.718	129	36.78	12	10.05	33	62.46	93	30.560	107	45.85	76	17.220	223	45.44	117
34	43.589		36.66		9.72		63.39		30.453		45.09		16.997		46.61	
Mittl. Ort	39.238		14.58		3.20		32.40		26.776		31.66		14.523		45.20	
sec δ, tg δ	1.147		+0.561		2.232		+1.995		1.001		+0.051		1.455		−1.057	
a, *a′*	+3.4		+17.8		+4.3		+17.8		+3.1		+17.8		+2.4		+17.7	
b, *b′*	+0.03		− 0.46		+0.12		− 0.46		0.00		− 0.46		−0.06		− 0.47	

Scheinbare Sternörter 1940

Tag	66) β Arietis AR.		66) β Arietis Dekl.		68) χ Eridani AR.		68) χ Eridani Dekl.	
1940	$1^h\ 51^m$		$+20°\ 30'$		$1^h\ 53^m$		$-51°\ 53'$	
Jan. 0	20.395	126	60.13	46	37.913	273	102.26	83
10	20.269	141	59.67	60	37.640	284	103.09	30
20	20.128	150	59.07	74	37.356	289	103.39	24
30	19.978	154	58.33	84	37.067	284	103.15	77
Febr. 9	19.824	149	57.49	92	36.783	269	102.38	128
19	19.675	135	56.57	96	36.514	246	101.10	175
29	19.540	113	55.61	95	36.268	213	99.35	217
März 10	19.427	83	54.66	88	36.055	171	97.18	254
20	19.344	46	53.78	78	35.884	122	94.64	286
30	19.298	4	53.00	61	35.762	67	91.78	311
Apr. 9	19.294	43	52.39	42	35.695	6	88.67	330
19	19.337	91	51.97	18	35.689	56	85.37	341
29	19.428	138	51.79	8	35.745	120	81.96	346
Mai 9	19.566	184	51.87	35	35.865	183	78.50	341
19	19.750	224	52.22	62	36.048	240	75.09	330
29	19.974	258	52.84	89	36.288	293	71.79	311
Juni 8	20.232	286	53.73	113	36.581	338	68.68	284
18	20.518	305	54.86	134	36.919	374	65.84	249
28	20.823	317	56.20	152	37.293	400	63.35	209
Juli 8	21.140	320	57.72	165	37.693	416	61.26	162
18	21.460	316	59.37	174	38.109	419	59.64	111
28	21.776	304	61.11	178	38.528	411	58.53	56
Aug. 7	22.080	286	62.89	177	38.939	392	57.97	0
17	22.366	263	64.66	172	39.331	363	57.97	56
27	22.629	236	66.38	163	39.694	325	58.53	110
Sept. 6	22.865	206	68.01	152	40.019	279	59.63	161
16	23.071	175	69.53	138	40.298	227	61.24	206
26	23.246	142	70.91	121	40.525	170	63.30	242
Okt. 6	23.388	110	72.12	105	40.695	111	65.72	270
16	23.498	77	73.17	87	40.806	52	68.42	287
25	[19] 23.575	47	74.04	69	[20] 40.858	7	71.29	293
Nov. 4	23.622	16	74.73	51	40.851	62	74.22	287
14	23.638	13	75.24	33	40.789	113	77.09	271
24	23.625	41	75.57	16	40.676	159	79.80	244
Dez. 4	23.584	68	75.73	1	40.517	199	82.24	207
14	23.516	93	75.72	19	40.318	233	84.31	164
24	23.423	115	75.53	35	40.085	258	85.95	115
34	23.308		75.18		39.827		87.10	
Mittl. Ort	19.196		55.97		37.470		84.87	
sec δ, tg δ	1.068		+0.374		1.621		−1.276	
a, *a′*	+3.3		+17.7		+2.3		+17.6	
b, *b′*	+0.02		− 0.47		−0.07		− 0.48	

Tag	72) α Hydri AR.		72) α Hydri Dekl.		71) υ Ceti AR.		71) υ Ceti Dekl.	
1940	$1^h\ 56^m$		$-61°\ 51'$		$1^h\ 57^m$		$-21°\ 21'$	
Jan. 0	53.12	39	59.38	76	11.397	139	73.83	99
10	52.73	41	60.14	17	11.258	152	74.82	69
20	52.32	41	60.31	41	11.106	160	75.51	37
30	51.91	40	59.90	98	10.946	161	75.88	5
Febr. 9	51.51	38	58.92	151	10.785	157	75.93	28
19	51.13	35	57.41	199	10.628	145	75.65	60
29	50.78	30	55.42	244	10.483	124	75.05	93
März 10	50.48	24	52.98	281	10.359	97	74.12	123
20	50.24	19	50.17	312	10.262	63	72.89	151
30	50.05	12	47.05	336	10.199	24	71.38	178
Apr. 9	49.93	4	43.69	352	10.175	20	69.60	202
19	49.89	4	40.17	361	10.195	66	67.58	221
29	49.93	13	36.56	361	10.261	112	65.37	238
Mai 9	50.06	20	32.95	355	10.373	156	62.99	249
19	50.26	27	29.40	339	10.529	198	60.50	253
29	50.53	34	26.01	315	10.727	234	57.97	253
Juni 8	50.87	40	22.86	284	10.961	265	55.44	247
18	51.27	45	20.02	245	11.226	288	52.97	233
28	51.72	49	17.57	200	11.514	303	50.64	214
Juli 8	52.21	51	15.57	150	11.817	311	48.50	188
18	52.72	51	14.07	95	12.128	310	46.62	158
28	53.23	52	13.12	37	12.438	301	45.04	122
Aug. 7	53.75	49	12.75	22	12.739	286	43.82	84
17	54.24	45	12.97	81	13.025	264	42.98	44
27	54.69	41	13.78	137	13.289	237	42.54	1
Sept. 6	55.10	35	15.15	188	13.526	207	42.53	39
16	55.45	29	17.03	234	13.733	172	42.92	77
26	55.74	21	19.37	270	13.905	138	43.69	111
Okt. 6	55.95	13	22.07	296	14.043	103	44.80	139
16	56.08	5	25.03	311	14.146	67	46.19	162
25	[20] 56.13	3	28.14	315	[21] 14.213	32	47.81	177
Nov. 4	56.10	11	31.29	306	14.245	1	49.58	184
14	55.99	18	34.35	285	14.246	30	51.42	183
24	55.81	24	37.20	253	14.216	59	53.25	175
Dez. 4	55.57	29	39.73	213	14.157	85	55.00	161
14	55.28	34	41.86	164	14.072	109	56.61	140
24	54.94	38	43.50	110	13.963	128	58.01	116
34	54.56		44.60		13.835		59.17	
Mittl. Ort	52.78		40.32		10.636		64.05	
sec δ, tg δ	2.121		−1.870		1.074		−0.391	
a, *a′*	+1.9		+17.5		+2.8		+17.5	
b, *b′*	−0.11		− 0.49		−0.02		− 0.49	

Tag	70) 50 Cassiopeiae AR.		70) 50 Cassiopeiae Dekl.		73) γ Andromedae *pr* AR.		73) γ Andromedae *pr* Dekl.	
1940	1h 58m		+72° 7′		2h 0m		+42° 2′	
	s		″		s		″	
Jan. 0	19.92	55	72.49	94	14.076	173	44.20	12
10	19.37	60	73.43	37	13.903	195	44.32	25
20	18.77	62	73.80	22	13.708	210	44.07	59
30	18.15	62	73.58	80	13.498	214	43.48	93
Febr. 9	17.53	59	72.78	134	13.284	207	42.55	123
19	16.94	53	71.44	183	13.077	191	41.32	148
29	16.41	46	69.61	223	12.886	162	39.84	166
März 10	15.95	35	67.38	255	12.724	123	38.18	177
20	15.60	23	64.83	275	12.601	75	36.41	179
30	15.37	11	62.08	285	12.526	21	34.62	175
Apr. 9	15.26	4	59.23	283	12.505	37	32.87	162
19	15.30	17	56.40	271	12.542	97	31.25	143
29	15.47	31	53.69	248	12.639	157	29.82	116
Mai 9	15.78	43	51.21	218	12.796	212	28.66	86
19	16.21	54	49.03	181	13.008	263	27.80	53
29	16.75	63	47.22	137	13.271	305	27.27	16
Juni 8	17.38	71	45.85	90	13.576	340	27.11	20
18	18.09	77	44.95	42	13.916	365	27.31	57
28	18.86	80	44.53	8	14.281	380	27.88	90
Juli 8	19.66	81	44.61	58	14.661	386	28.78	122
18	20.47	81	45.19	107	15.047	382	30.00	151
28	21.28	79	46.26	151	15.429	369	31.51	174
Aug. 7	22.07	75	47.77	193	15.798	350	33.25	195
17	22.82	70	49.70	230	16.148	325	35.20	210
27	23.52	64	52.00	263	16.473	294	37.30	220
Sept. 6	24.16	56	54.63	289	16.767	260	39.50	226
16	24.72	47	57.52	311	17.027	222	41.76	228
26	25.19	38	60.63	326	17.249	184	44.04	226
Okt. 6	25.57	29	63.89	335	17.433	145	46.30	219
16	25.86	18	67.24	335	17.578	105	48.49	208
25	21 26.04	8	70.59	329	21 17.683	64	50.57	195
Nov. 4	26.12	3	73.88	316	17.747	25	52.52	177
14	26.09	14	77.04	293	17.772	16	54.29	155
24	25.95	25	79.97	263	17.756	54	55.84	130
Dez. 4	25.70	34	82.60	226	17.702	92	57.14	101
14	25.36	44	84.86	181	17.610	127	58.15	69
24	24.92	51	86.67	129	17.483	159	58.84	35
34	24.41		87.96		17.324		59.19	
Mittl. Ort	15.91		56.40		12.360		34.18	
sec δ, tg δ	3.259		+3.102		1.347		+0.902	
a, *a′*	+5.1		+17.4		+3.7		+17.3	
b, *b′*	+0.18		— 0.49		+0.05		— 0.50	

Tag	74) α Arietis AR.		74) α Arietis Dekl.		75) β Trianguli AR.		75) β Trianguli Dekl.	
1940	2h 3m		+23° 10′		2h 5m		+34° 42′	
	s		″		s		″	
Jan. 0	48.410	124	51.05	35	59.436	147	23.76	4
10	48.286	143	50.70	51	59.289	167	23.72	32
20	48.143	156	50.19	68	59.122	182	23.40	60
30	47.987	161	49.51	81	58.940	188	22.80	87
Febr. 9	47.826	158	48.70	92	58.752	185	21.93	109
19	47.668	146	47.78	99	58.567	170	20.84	127
29	47.522	126	46.79	101	58.397	147	19.57	140
März 10	47.396	96	45.78	98	58.250	113	18.17	146
20	47.300	59	44.80	90	58.137	71	16.71	146
30	47.241	16	43.90	76	58.066	23	15.25	137
Apr. 9	47.225	31	43.14	58	58.043	30	13.88	123
19	47.256	80	42.56	37	58.073	85	12.65	104
29	47.336	129	42.19	12	58.158	139	11.61	79
Mai 9	47.465	175	42.07	16	58.297	191	10.82	49
19	47.640	218	42.23	43	58.488	237	10.33	19
29	47.858	254	42.66	70	58.725	277	10.14	14
Juni 8	48.112	284	43.36	95	59.002	310	10.28	46
18	48.396	306	44.31	118	59.312	335	10.74	77
28	48.702	319	45.49	138	59.647	349	11.51	106
Juli 8	49.021	325	46.87	154	59.996	355	12.57	131
18	49.346	322	48.41	165	60.351	353	13.88	154
28	49.668	312	50.06	172	60.704	342	15.42	171
Aug. 7	49.980	297	51.78	174	61.046	326	17.13	185
17	50.277	275	53.52	172	61.372	303	18.98	193
27	50.552	249	55.24	167	61.675	275	20.91	198
Sept. 6	50.801	220	56.91	157	61.950	244	22.89	199
16	51.021	190	58.48	146	62.194	211	24.88	196
26	51.211	158	59.94	132	62.405	176	26.84	189
Okt. 6	51.369	125	61.26	117	62.581	141	28.73	180
16	51.494	93	62.43	100	62.722	105	30.53	168
25	22 51.587	62	63.43	84	23 62.827	69	32.21	152
Nov. 4	51.649	30	64.27	66	62.896	33	33.73	135
14	51.679	1	64.93	49	62.929	2	35.08	116
24	51.678	31	65.42	31	62.927	37	36.24	94
Dez. 4	51.647	60	65.73	14	62.890	71	37.18	69
14	51.587	87	65.87	5	62.819	103	37.87	43
24	51.500	113	65.82	22	62.716	132	38.30	15
34	51.387		65.60		62.584		38.45	
Mittl. Ort	47.096		46.70		57.878		16.10	
sec δ, tg δ	1.088		+0.428		1.216		+0.693	
a, *a′*	+3.4		+17.2		+3.6		+17.1	
b, *b′*	+0.02		— 0.51		+0.04		— 0.52	

Scheinbare Sternörter 1940

Tag	76) 55 Cassiopeiae AR.		76) 55 Cassiopeiae Dekl.		78) μ Fornacis AR.		78) μ Fornacis Dekl.	
1940	$2^h\ 9^m$		+66° 14′		$2^h\ 10^m$		−30° 59′	
	s		″		s		″	
Jan. 0	47.89	39	54.80	91	16.709	160	89.03	112
10	47.50	42	55.71	38	16.549	176	90.15	73
20	47.08	45	56.09	17	16.373	186	90.88	33
30	46.63	46	55.92	72	16.187	190	91.21	9
Febr. 9	46.17	44	55.20	122	15.997	185	91.12	49
19	45.73	41	53.98	168	15.812	173	90.63	88
29	45.32	35	52.30	207	15.639	153	89.75	127
März 10	44.97	28	50.23	237	15.486	125	88.48	161
20	44.69	20	47.86	256	15.361	90	86.87	193
30	44.49	9	45.30	266	15.271	49	84.94	221
Apr. 9	44.40	1	42.64	264	15.222	3	82.73	246
19	44.41	12	40.00	253	15.219	46	80.27	265
29	44.53	22	37.47	233	15.265	95	77.62	279
Mai 9	44.75	32	35.14	204	15.360	143	74.83	286
19	45.07	41	33.10	168	15.503	189	71.97	288
29	45.48	49	31.42	128	15.692	230	69.09	283
Juni 8	45.97	55	30.14	84	15.922	264	66.26	271
18	46.52	60	29.30	38	16.186	292	63.55	251
28	47.12	62	28.92	10	16.478	313	61.04	224
Juli 8	47.74	64	29.02	56	16.791	323	58.80	193
18	48.38	64	29.58	102	17.114	326	56.87	155
28	49.02	63	30.60	143	17.440	321	55.32	112
Aug. 7	49.65	60	32.03	182	17.761	307	54.20	67
17	50.25	57	33.85	217	18.068	287	53.53	19
27	50.82	52	36.02	247	18.355	261	53.34	28
Sept. 6	51.34	46	38.49	272	18.616	229	53.62	75
16	51.80	40	41.21	291	18.845	194	54.37	117
26	52.20	33	44.12	304	19.039	157	55.54	156
Okt. 6	52.53	26	47.16	313	19.196	117	57.10	187
16	52.79	18	50.29	313	19.313	78	58.97	210
25*)	[24] 52.97	10	53.42	307	[24] 19.391	40	61.07	225
Nov. 4	53.07	2	56.49	295	19.431	2	63.32	230
14	53.09	6	59.44	275	19.433	33	65.62	227
24	53.03	14	62.19	247	19.400	66	67.89	214
Dez. 4	52.89	22	64.66	213	19.334	97	70.03	194
14	52.67	29	66.79	171	19.237	124	71.97	166
24	52.38	35	68.50	124	19.113	148	73.63	134
34	52.03		69.74		18.965		74.97	
Mittl. Ort	44.64		40.36		15.946		76.17	
sec δ, tg δ	2.483		+2.272		1.167		−0.601	
a, *a′*	+4.7		+16.9		+2.6		+16.9	
b, *b′*	+0.13		− 0.54		−0.03		− 0.54	

Tag	80) 67 Ceti AR.		80) 67 Ceti Dekl.		85) ξ² Ceti AR.		85) ξ² Ceti Dekl.	
1940	$2^h\ 13^m$		−6° 41′		$2^h\ 24^m$		+8° 11′	
	s		″		s		″	
Jan. 0	60.315	115	57.75	93	59.102	107	30.27	65
10	60.200	133	58.68	77	58.995	127	29.62	66
20	60.067	144	59.45	61	58.868	142	28.96	64
30	59.923	150	60.06	42	58.726	151	28.32	60
Febr. 9	59.773	150	60.48	21	58.575	152	27.72	56
19	59.623	140	60.69	0	58.423	146	27.16	48
29	59.483	124	60.69	23	58.277	130	26.68	37
März 10	59.359	100	60.46	47	58.147	105	26.31	25
20	59.259	68	59.99	70	58.042	74	26.06	10
30	59.191	31	59.29	94	57.968	37	25.96	9
Apr. 9	59.160	11	58.35	117	57.931	6	26.05	30
19	59.171	55	57.18	140	57.937	51	26.35	50
29	59.226	100	55.78	161	57.988	97	26.85	73
Mai 9	59.326	144	54.17	177	58.085	142	27.58	95
19	59.470	184	52.40	192	58.227	184	28.53	115
29	59.654	220	50.48	202	58.411	220	29.68	133
Juni 8	59.874	250	48.46	206	58.631	251	31.01	148
18	60.124	274	46.40	205	58.882	276	32.49	159
28	60.398	289	44.35	200	59.158	291	34.08	167
Juli 8	60.687	298	42.35	187	59.449	301	35.75	168
18	60.985	298	40.48	170	59.750	302	37.43	165
28	61.283	292	38.78	149	60.052	297	39.08	158
Aug. 7	61.575	279	37.29	122	60.349	285	40.66	146
17	61.854	261	36.07	92	60.634	268	42.12	131
27	62.115	237	35.15	62	60.902	246	43.43	112
Sept. 6	62.352	211	34.53	29	61.148	222	44.55	90
16	62.563	182	34.24	3	61.370	194	45.45	69
26	62.745	151	34.27	33	61.564	166	46.14	47
Okt. 6	62.896	120	34.60	59	61.730	136	46.61	25
16	63.016	89	35.19	82	61.866	106	46.86	5
25*)	[25] 63.105	58	36.01	100	[28] 61.972	77	46.91	12
Nov. 4	63.163	29	37.01	113	62.049	47	46.79	27
14	63.192	1	38.14	120	62.096	17	46.52	40
24	63.191	29	39.34	122	62.113	12	46.12	48
Dez. 4	63.162	56	40.56	119	62.101	40	45.64	56
14	63.106	80	41.75	112	62.061	68	45.08	60
24	63.026	103	42.87	100	61.993	94	44.48	63
34	62.923		43.87		61.899		43.85	
Mittl. Ort	59.323		52.00		57.890		31.71	
sec δ, tg δ	1.007		−0.117		1.010		+0.144	
a, *a′*	+3.0		+16.7		+3.2		+16.2	
b, *b′*	−0.01		− 0.55		+0.01		− 0.59	

*) Bei Stern 85) lies Okt. 26.

Tag	87) 36 H. Cassiopeiae AR.		Dekl.		90) μ Hydri AR.		Dekl.		89) ν Arietis AR.		Dekl.		91) δ Ceti AR.		Dekl.	
1940	$2^h\ 32^m$		$+72°\ 33'$		$2^h\ 32^m$		$-79°\ 21'$		$2^h\ 35^m$		$+21°\ 42'$		$2^h\ 36^m$		$+0°\ 4'$	
	s		"		s		"		s		"		s		"	
Jan. 0	21.35	51	41.34	136	54.62	115	97.76	98	25.653	110	13.30	26	25.412	104	10.23	85
10	20.84	58	42.70	81	53.47	120	98.74	36	25.543	135	13.04	40	25.308	126	9.38	76
20	20.26	63	43.51	24	52.27	123	99.10	24	25.408	153	12.64	53	25.182	141	8.62	65
30	19.63	64	43.75	34	51.04	123	98.86	83	25.255	164	12.11	65	25.041	152	7.97	53
Febr. 9	18.99	64	43.41	90	49.81	118	98.03	140	25.091	168	11.46	74	24.889	155	7.44	40
19	18.35	60	42.51	143	48.63	111	96.63	191	24.923	162	10.72	80	24.734	151	7.04	24
29	17.75	53	41.08	188	47.52	101	94.72	238	24.761	146	9.92	83	24.583	137	6.80	6
März 10	17.22	45	39.20	227	46.51	89	92.34	277	24.615	121	9.09	82	24.446	114	6.74	12
20	16.77	33	36.93	255	45.62	75	89.57	311	24.494	88	8.27	76	24.332	85	6.86	31
30	16.44	21	34.38	273	44.87	58	86.46	336	24.406	48	7.51	65	24.247	49	7.17	53
Apr. 9	16.23	7	31.65	280	44.29	40	83.10	354	24.358	2	6.86	51	24.198	8	7.70	75
19	16.16	7	28.85	276	43.89	22	79.56	365	24.356	46	6.35	32	24.190	36	8.45	97
29	16.23	22	26.09	263	43.67	2	75.91	367	24.402	96	6.03	10	24.226	82	9.42	118
Mai 9	16.45	34	23.46	240	43.65	17	72.24	361	24.498	144	5.93	13	24.308	126	10.60	138
19	16.79	47	21.06	209	43.82	36	68.63	347	24.642	188	6.06	37	24.434	168	11.98	155
29	17.26	58	18.97	173	44.18	54	65.16	323	24.830	228	6.43	61	24.602	206	13.53	169
Juni 8	17.84	67	17.24	131	44.72	72	61.93	294	25.058	262	7.04	85	24.808	238	15.22	178
18	18.51	74	15.93	85	45.44	86	58.99	256	25.320	287	7.89	105	25.046	264	17.00	184
28	19.25	80	15.08	38	46.30	99	56.43	211	25.607	306	8.94	123	25.310	282	18.84	184
Juli 8	20.05	83	14.70	10	47.29	108	54.32	161	25.913	317	10.17	137	25.592	293	20.68	179
18	20.88	84	14.80	57	48.37	115	52.71	105	26.230	319	11.54	147	25.885	297	22.47	168
28	21.72	84	15.37	103	49.52	118	51.66	46	26.549	316	13.01	153	26.182	294	24.15	153
Aug. 7	22.56	82	16.40	146	50.70	117	51.20	14	26.865	305	14.54	155	26.476	284	25.68	134
17	23.38	77	17.86	187	51.87	113	51.34	75	27.170	288	16.09	152	26.760	269	27.02	111
27	24.15	73	19.73	222	53.00	106	52.09	134	27.458	267	17.61	147	27.029	249	28.13	85
Sept. 6	24.88	66	21.95	254	54.06	93	53.43	188	27.725	243	19.08	137	27.278	226	28.98	57
16	25.54	59	24.49	281	54.99	79	55.31	237	27.968	216	20.45	126	27.504	200	29.55	28
26	26.13	50	27.30	301	55.78	61	57.68	277	28.184	187	21.71	113	27.704	172	29.83	2
Okt. 6	26.63	40	30.31	316	56.39	42	60.45	307	28.371	157	22.84	99	27.876	143	29.85	23
16	27.03	31	33.47	324	56.81	21	63.52	326	28.528	127	23.83	84	28.019	114	29.62	45
26	^{29}27.34	20	36.71	325	^{30}57.02	2	66.78	333	^{30}28.655	95	24.67	69	^{30}28.133	83	29.17	65
Nov. 4	27.54	9	39.96	320	57.00	23	70.11	326	28.750	64	25.36	54	28.216	54	28.52	78
14	27.63	3	43.16	305	56.77	45	73.37	308	28.814	32	25.90	41	28.270	24	27.74	88
24	27.60	15	46.21	283	56.32	64	76.45	278	28.846	1	26.31	26	28.294	5	26.86	94
Dez. 4	27.45	26	49.04	252	55.68	82	79.23	237	28.845	33	26.57	12	28.289	35	25.92	95
14	27.19	37	51.56	215	54.86	96	81.60	187	28.812	65	26.69	2	28.254	62	24.97	93
24	26.82	46	53.71	168	53.90	108	83.47	133	28.747	95	26.67	17	28.192	90	24.04	88
34	26.36		55.39		52.82		84.80		28.652		26.50		28.102		23.16	
Mittl. Ort	16.73		27.79		53.65		77.05		24.191		11.13		24.233		14.69	
sec δ, tg δ	3.336		+3.183		5.422		−5.329		1.076		+0.398		1.000		+0.001	
a, *a'*	+5.7		+15.8		−1.3		+15.7		+3.4		+15.6		+3.1		+15.6	
b, *b'*	+0.17		− 0.62		−0.28		− 0.62		+0.02		− 0.63		0.00		− 0.63	

Scheinbare Sternörter 1940

Tag	93) ϑ Persei AR.		93) ϑ Persei Dekl.		97) π Ceti AR.		97) π Ceti Dekl.		98) μ Ceti AR.		98) μ Ceti Dekl.		100) 41 Arietis AR.		100) 41 Arietis Dekl.	
1940	2h 40m		+48° 58′		2h 41m		−14° 6′		2h 41m		+9° 51′		2h 46m		+27° 0′	
Jan. 0	7.551	179	42.92	67	16.996	115	51.52	116	42.983	100	41.15	60	28.335	111	54.97	5
10	7.372	214	43.59	28	16.881	136	52.68	92	42.883	123	40.55	61	28.224	139	54.92	23
20	7.158	241	43.87	12	16.745	153	53.60	68	42.760	141	39.94	61	28.085	160	54.69	42
30	6.917	256	43.75	52	16.592	163	54.28	40	42.619	154	39.33	59	27.925	174	54.27	58
Febr. 9	6.661	260	43.23	89	16.429	166	54.68	12	42.465	158	38.74	56	27.751	179	53.69	74
19	6.401	249	42.34	123	16.263	162	54.80	16	42.307	153	38.18	50	27.572	175	52.95	87
29	6.152	225	41.11	152	16.101	149	54.64	45	42.154	141	37.68	42	27.397	161	52.08	94
März 10	5.927	188	39.59	174	15.952	127	54.19	73	42.013	118	37.26	31	27.236	135	51.14	99
20	5.739	140	37.85	188	15.825	98	53.46	101	41.895	88	36.95	17	27.101	102	50.15	98
30	5.599	82	35.97	195	15.727	61	52.45	127	41.807	51	36.78	1	26.999	61	49.17	92
Apr. 9	5.517	18	34.02	192	15.666	21	51.18	153	41.756	9	36.77	18	26.938	14	48.25	80
19	5.499	50	32.10	182	15.645	23	49.65	175	41.747	36	36.95	38	26.924	37	47.45	64
29	5.549	118	30.28	165	15.668	69	47.90	196	41.783	83	37.33	59	26.961	88	46.81	45
Mai 9	5.667	183	28.63	142	15.737	115	45.94	211	41.866	128	37.92	80	27.049	138	46.36	22
19	5.850	244	27.21	112	15.852	158	43.83	224	41.994	171	38.72	101	27.187	186	46.14	3
29	6.094	299	26.09	80	16.010	197	41.59	230	42.165	209	39.73	120	27.373	228	46.17	27
Juni 8	6.393	345	25.29	45	16.207	231	39.29	231	42.374	242	40.93	135	27.601	264	46.44	53
18	6.738	380	24.84	9	16.438	259	36.98	226	42.616	269	42.28	148	27.865	292	46.97	77
28	7.118	406	24.75	28	16.697	279	34.72	215	42.885	288	43.76	156	28.157	313	47.74	98
Juli 8	7.524	422	25.03	63	16.976	293	32.57	198	43.173	299	45.32	159	28.470	326	48.72	116
18	7.946	427	25.66	96	17.269	298	30.59	175	43.472	302	46.91	158	28.796	331	49.88	131
28	8.373	424	26.62	126	17.567	297	28.84	147	43.774	300	48.49	153	29.127	328	51.19	143
Aug. 7	8.797	412	27.88	153	17.864	289	27.37	115	44.074	291	50.02	144	29.455	319	52.62	149
17	9.209	392	29.41	177	18.153	275	26.22	79	44.365	277	51.46	129	29.774	304	54.11	152
27	9.601	366	31.18	196	18.428	255	25.43	41	44.642	257	52.75	112	30.078	284	55.63	152
Sept. 6	9.967	335	33.14	211	18.683	232	25.02	3	44.899	234	53.87	93	30.362	260	57.15	149
16	10.302	300	35.25	222	18.915	205	24.99	35	45.133	209	54.80	72	30.622	234	58.64	142
26	10.602	262	37.47	228	19.120	176	25.34	70	45.342	182	55.52	51	30.856	206	60.06	133
Okt. 6	10.864	221	39.75	232	19.296	145	26.04	101	45.524	154	56.03	31	31.062	176	61.39	122
16	11.085	178	42.07	230	19.441	114	27.05	126	45.678	124	56.34	12	31.238	144	62.61	111
26	11.263	133	44.37	224	19.555	81	28.31	147	45.802	95	56.46	6	31.382	112	63.72	99
Nov. 4	[31] 11.396	85	46.61	213	[1] 19.636	50	29.78	160	[1] 45.897	65	56.40	20	[2] 31.494	79	64.71	85
14	11.481	37	48.74	198	19.686	19	31.38	166	45.962	35	56.20	32	31.573	46	65.56	71
24	11.518	13	50.72	178	19.705	13	33.04	165	45.997	4	55.88	42	31.619	10	66.27	57
Dez. 4	11.505	63	52.50	154	19.692	43	34.69	158	46.001	26	55.46	48	31.629	26	66.84	41
14	11.442	110	54.04	124	19.649	73	36.27	145	45.975	56	54.98	54	31.603	60	67.25	25
24	11.332	156	55.28	90	19.576	100	37.72	128	45.919	85	54.44	57	31.543	93	67.50	8
34	11.176		56.18		19.476		39.00		45.834		53.87		31.450		67.58	
Mittl. Ort	5.305		33.95		15.919		42.66		41.666		42.85		26.718		51.92	
sec δ, tg δ	1.524		+1.149		1.031		−0.251		1.015		+0.174		1.122		+0.510	
a, a′	+4.1		+15.3		+2.9		+15.3		+3.2		+15.3		+3.5		+15.0	
b, b′	+0.06		−0.64		−0.01		−0.65		+0.01		−0.65		+0.03		−0.66	

Tag	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ^2 Eridani AR.		102) τ^2 Eridani Dekl.	
1940	$2^h\ 46^m$		$-32°\ 39'$		$2^h\ 48^m$		$-21°\ 14'$	
	s		"		s		"	
Jan. 0	35.728	154	38.99	143	20.006	124	72.47	132
10	35.574	178	40.42	105	19.882	146	73.79	102
20	35.396	195	41.47	62	19.736	165	74.81	70
30	35.201	205	42.09	19	19.571	176	75.51	36
Febr. 9	34.996	208	42.28	24	19.395	180	75.87	2
19	34.788	201	42.04	66	19.215	176	75.89	33
29	34.587	187	41.38	107	19.039	162	75.56	67
März 10	34.400	163	40.31	146	18.877	142	74.89	100
20	34.237	131	38.85	181	18.735	112	73.89	131
30	34.106	92	37.04	213	18.623	76	72.58	161
Apr. 9	34.014	48	34.91	240	18.547	35	70.97	187
19	33.966	1	32.51	264	18.512	10	69.10	210
29	33.967	52	29.87	280	18.522	58	67.00	230
Mai 9	34.019	102	27.07	292	18.580	105	64.70	244
19	34.121	151	24.15	297	18.685	149	62.26	254
29	34.272	196	21.18	295	18.834	191	59.72	257
Juni 8	34.468	236	18.23	285	19.025	227	57.15	255
18	34.704	270	15.38	269	19.252	256	54.60	245
28	34.974	295	12.69	244	19.508	280	52.15	229
Juli 8	35.269	313	10.25	215	19.788	296	49.86	207
18	35.582	324	8.10	177	20.084	303	47.79	179
28	35.906	326	6.33	134	20.387	304	46.00	145
Aug. 7	36.232	319	4.99	88	20.691	297	44.55	106
17	36.551	305	4.11	39	20.988	284	43.49	65
27	36.856	285	3.72	12	21.272	265	42.84	22
Sept. 6	37.141	259	3.84	61	21.537	242	42.62	21
16	37.400	229	4.45	109	21.779	215	42.83	64
26	37.629	194	5.54	151	21.994	185	43.47	102
Okt. 6	37.823	158	7.05	188	22.179	153	44.49	136
16	37.981	119	8.93	218	22.332	120	45.85	165
26	38.100	81	11.11	238	[2] 22.452	86	47.50	185
Nov. 4	[2] 38.181	41	13.49	248	22.538	52	49.35	198
14	38.222	1	15.97	249	22.590	19	51.33	203
24	38.223	36	18.46	240	22.609	15	53.36	199
Dez. 4	38.187	72	20.86	222	22.594	48	55.35	188
14	38.115	106	23.08	197	22.546	80	57.23	171
24	38.009	136	25.05	165	22.466	107	58.94	147
34	37.873		26.70		22.359		60.41	
Mittl. Ort	34.733		25.09		18.940		61.46	
sec δ, tg δ	1.188		−0.641		1.073		−0.389	
a, a'	+2.5		+15.0		+2.7		+14.9	
b, b'	−0.03		− 0.66		−0.02		− 0.67	

Tag	103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
1940	$2^h\ 49^m$		$+52°\ 30'$		$2^h\ 53^m$		$-9°\ 7'$	
	s		"		s		"	
Jan. 0	61.820	191	75.26	87	30.829	103	76.92	111
10	61.629	232	76.13	47	30.726	128	78.03	94
20	61.397	263	76.60	6	30.598	146	78.97	72
30	61.134	283	76.66	37	30.452	159	79.69	50
Febr. 9	60.851	288	76.29	79	30.293	165	80.19	27
19	60.563	280	75.50	116	30.128	162	80.46	3
29	60.283	255	74.34	149	29.966	152	80.49	23
März 10	60.028	218	72.85	175	29.814	131	80.26	48
20	59.810	167	71.10	193	29.683	104	79.78	73
30	59.643	106	69.17	204	29.579	69	79.05	98
Apr. 9	59.537	38	67.13	206	29.510	29	78.07	122
19	59.499	34	65.07	199	29.481	15	76.85	146
29	59.533	107	63.08	184	29.496	60	75.39	165
Mai 9	59.640	179	61.24	163	29.556	106	73.74	184
19	59.819	245	59.61	136	29.662	148	71.90	198
29	60.064	304	58.25	104	29.810	188	69.92	207
Juni 8	60.368	355	57.21	69	29.998	223	67.85	212
18	60.723	396	56.52	33	30.221	251	65.73	211
28	61.119	426	56.19	5	30.472	273	63.62	204
Juli 8	61.545	445	56.24	42	30.745	287	61.58	193
18	61.990	454	56.66	77	31.032	294	59.65	174
28	62.444	453	57.43	110	31.326	294	57.91	150
Aug. 7	62.897	443	58.53	140	31.620	288	56.41	123
17	63.340	425	59.93	166	31.908	276	55.18	92
27	63.765	399	61.59	190	32.184	258	54.26	57
Sept. 6	64.164	368	63.49	208	32.442	237	53.69	23
16	64.532	333	65.57	223	32.679	212	53.46	12
26	64.865	294	67.80	234	32.891	186	53.58	46
Okt. 6	65.159	250	70.14	240	33.077	157	54.04	76
16	65.409	204	72.54	241	33.234	127	54.80	101
26	65.613	156	74.95	238	33.361	96	55.81	121
Nov. 4	[3] 65.769	104	77.33	231	[4] 33.457	66	57.02	136
14	65.873	50	79.64	217	33.523	34	58.38	144
24	65.923	4	81.81	199	33.557	3	59.82	147
Dez. 4	65.919	60	83.80	176	33.560	28	61.29	142
14	65.859	114	85.56	146	33.532	59	62.71	133
24	65.745	165	87.02	112	33.473	87	64.04	121
34	65.580		88.14		33.386		65.25	
Mittl. Ort	59.330		66.30		29.649		69.14	
sec δ, tg δ	1.643		+1.304		1.013		−0.161	
a, a'	+4.3		+14.8		+2.9		+14.6	
b, b'	+0.06		− 0.68		−0.01		− 0.69	

Scheinbare Sternörter 1940

Tag	106) ϑ Eridani *pr* AR.	Δ	Dekl.	Δ	105) 47 H. Cephei AR.	Δ	Dekl.	Δ	107) α Ceti AR.	Δ	Dekl.	Δ	108) γ Persei AR.	Δ	Dekl.	Δ
1940	$2^h\ 55^m$		−40° 32′		$2^h\ 57^m$		+79° 10′		$2^h\ 59^m$		+3° 51′		$3^h\ 0^m$		+53° 16′	
Jan. 0	$60^s.159$	181	54″.94	159	$69^s.05$	80	75″.71	184	$9^s.718$	93	15″.58	78	$28^s.746$	186	31″.34	99
10	59.978	208	56.53	113	68.25	92	77.55	130	9.625	118	14.80	72	28.560	230	32.33	60
20	59.770	228	57.66	66	67.33	102	78.85	72	9.507	139	14.08	65	28.330	265	32.93	18
30	59.542	241	58.32	18	66.31	107	79.57	11	9.368	154	13.43	56	28.065	288	33.11	25
Febr. 9	59.301	243	58.50	31	65.24	108	79.68	49	9.214	161	12.87	46	27.777	297	32.86	66
19	59.058	238	58.19	78	64.16	104	79.19	107	9.053	160	12.41	34	27.480	291	32.20	106
29	58.820	222	57.41	124	63.12	95	78.12	161	8.893	149	12.07	21	27.189	269	31.14	140
März 10	58.598	197	56.17	165	62.17	83	76.51	207	8.744	130	11.86	6	26.920	233	29.74	168
20	58.401	164	54.52	204	61.34	66	74.44	244	8.614	103	11.80	12	26.687	184	28.06	189
30	58.237	122	52.48	238	60.68	48	72.00	271	8.511	68	11.92	30	26.503	123	26.17	202
Apr. 9	58.115	75	50.10	266	60.20	26	69.29	288	8.443	28	12.22	50	26.380	55	24.15	206
19	58.040	23	47.44	290	59.94	5	66.41	294	8.415	16	12.72	71	26.325	18	22.09	202
29	58.017	32	44.54	307	59.89	18	63.47	288	8.431	62	13.43	91	26.343	93	20.07	189
Mai 9	58.049	87	41.47	317	60.07	39	60.59	272	8.493	108	14.34	111	26.436	165	18.18	171
19	58.136	141	38.30	320	60.46	60	57.87	249	8.601	151	15.45	129	26.601	234	16.47	145
29	58.277	191	35.10	316	61.06	78	55.38	218	8.752	190	16.74	144	26.835	296	15.02	115
Juni 8	58.468	236	31.94	304	61.84	94	53.20	180	8.942	224	18.18	157	27.131	349	13.87	82
18	58.704	275	28.90	284	62.78	107	51.40	137	9.166	253	19.75	165	27.480	392	13.05	46
28	58.979	306	26.06	256	63.85	118	50.03	91	9.419	274	21.40	168	27.872	426	12.59	9
Juli 8	59.285	329	23.50	221	65.03	125	49.12	43	9.693	288	23.08	167	28.298	448	12.50	27
18	59.614	343	21.29	179	66.28	130	48.69	5	9.981	295	24.75	161	28.746	460	12.77	63
28	59.957	348	19.50	133	67.58	131	48.74	54	10.276	296	26.36	149	29.206	461	13.40	96
Aug. 7	60.305	345	18.17	82	68.89	130	49.28	101	10.572	289	27.85	134	29.667	453	14.36	126
17	60.650	333	17.35	29	70.19	127	50.29	146	10.861	277	29.19	115	30.120	438	15.62	154
27	60.983	313	17.06	27	71.46	121	51.75	187	11.138	261	30.34	93	30.558	415	17.16	179
Sept. 6	61.296	286	17.33	81	72.67	112	53.62	225	11.399	241	31.27	68	30.973	385	18.95	198
16	61.582	254	18.14	132	73.79	102	55.87	259	11.640	218	31.95	42	31.358	351	20.93	215
26	61.836	217	19.46	178	74.81	90	58.46	287	11.858	193	32.37	17	31.709	313	23.08	227
Okt. 6	62.053	177	21.24	217	75.71	76	61.33	310	12.051	165	32.54	6	32.022	270	25.35	236
16	62.230	133	23.41	248	76.47	59	64.43	326	12.216	138	32.48	28	32.292	225	27.71	239
26	62.363	89	25.89	269	77.06	43	67.69	336	12.354	108	32.20	46	32.517	175	30.10	238
Nov. 4*)	[4] 62.452	43	28.58	280	[5] 77.49	24	71.05	338	[5] 12.462	79	31.74	60	[6] 32.692	123	32.48	232
14	62.495	1	31.38	280	77.73	5	74.43	331	12.541	48	31.14	72	32.815	69	34.80	221
24	62.494	45	34.18	269	77.78	15	77.74	315	12.589	17	30.42	78	32.884	11	37.01	205
Dez. 4	62.449	87	36.87	249	77.63	34	80.89	291	12.606	15	29.64	82	32.895	46	39.06	184
14	62.362	126	39.36	219	77.29	53	83.80	258	12.591	45	28.82	81	32.849	103	40.90	155
24	62.236	161	41.55	182	76.76	71	86.38	215	12.546	77	28.01	79	32.746	158	42.45	124
34	62.075		43.37		76.05		88.53		12.469		27.22		32.588		43.69	
Mittl. Ort	59.124		39.22		61.31		63.72		8.387		19.82		26.144		23.07	
sec δ, tg δ	1.316		−0.855		5.329		+5.235		1.002		+0.067		1.672		+1.340	
a, *a′*	+2.3		+14.4		+8.0		+14.3		+3.1		+14.2		+4.3		+14.1	
b, *b′*	−0.04		−0.69		+0.25		−0.70		0.00		−0.70		+0.06		−0.71	

*) Bei Stern 105), 107) und 108) lies Nov. 5.

Tag	109) ρ Persei AR.		109) ρ Persei Dekl.		110) μ Horologii AR.		110) μ Horologii Dekl.		111) β Persei AR.		111) β Persei Dekl.		114) δ Arietis AR.		114) δ Arietis Dekl.	
1940	$3^h\ 1^m$		+38° 36′		$3^h\ 2^m$		−59° 57′		$3^h\ 4^m$		+40° 43′		$3^h\ 8^m$		+19° 29′	
	s		″		s		″		s		″		s		″	
Jan. 0	21.330	124	38.17	44	12.921	335	90.33	165	17.394	128	38.94	54	13.156	91	63.71	25
10	21.206	159	38.61	17	12.586	372	91.98	110	17.266	165	39.48	26	13.065	120	63.46	34
20	21.047	186	38.78	12	12.214	399	93.08	53	17.101	193	39.74	5	12.945	144	63.12	43
30	20.861	206	38.66	41	11.815	413	93.61	4	16.908	214	39.69	36	12.801	162	62.69	50
Febr. 9	20.655	214	38.25	68	11.402	414	93.57	61	16.694	224	39.33	65	12.639	172	62.19	58
19	20.441	212	37.57	93	10.988	402	92.96	115	16.470	221	38.68	93	12.467	172	61.61	62
29	20.229	197	36.64	114	10.586	378	91.81	165	16.249	207	37.75	115	12.295	162	60.99	65
März 10	20.032	171	35.50	130	10.208	340	90.16	213	16.042	179	36.60	134	12.133	143	60.34	63
20	19.861	134	34.20	139	9.868	291	88.03	253	15.863	142	35.26	145	11.990	113	59.71	58
30	19.727	88	32.81	143	9.577	233	85.50	287	15.721	95	33.81	151	11.877	77	59.13	50
Apr. 9	19.639	35	31.38	139	9.344	166	82.63	317	15.626	41	32.30	149	11.800	34	58.63	38
19	19.604	22	29.99	130	9.178	93	79.46	338	15.585	18	30.81	140	11.766	14	58.25	22
29	19.626	80	28.69	114	9.085	16	76.08	351	15.603	77	29.41	125	11.780	62	58.03	3
Mai 9	19.706	137	27.55	93	9.069	63	72.57	358	15.680	136	28.16	106	11.842	110	58.00	16
19	19.843	191	26.62	69	9.132	141	68.99	355	15.816	192	27.10	82	11.952	156	58.16	38
29	20.034	240	25.93	42	9.273	215	65.44	345	16.008	243	26.28	55	12.108	198	58.54	58
Juni 8	20.274	282	25.51	13	9.488	284	61.99	325	16.251	286	25.73	25	12.306	235	59.12	78
18	20.556	316	25.38	15	9.772	344	58.74	298	16.537	322	25.48	4	12.541	266	59.90	97
28	20.872	342	25.53	44	10.116	395	55.76	262	16.859	349	25.52	33	12.807	288	60.87	111
Juli 8	21.214	359	25.97	71	10.511	436	53.14	218	17.208	367	25.85	62	13.095	303	61.98	123
18	21.573	367	26.68	95	10.947	464	50.96	170	17.575	376	26.47	88	13.398	312	63.21	131
28	21.940	368	27.63	117	11.411	480	49.26	115	17.951	377	27.35	111	13.710	313	64.52	135
Aug. 7	22.308	361	28.80	135	11.891	482	48.11	56	18.328	371	28.46	131	14.023	307	65.87	135
17	22.669	347	30.15	150	12.373	470	47.55	5	18.699	357	29.77	148	14.330	297	67.22	131
27	23.016	328	31.65	161	12.843	446	47.60	65	19.056	339	31.25	162	14.627	281	68.53	124
Sept. 6	23.344	305	33.26	168	13.289	410	48.25	125	19.395	315	32.87	170	14.908	262	69.77	114
16	23.649	278	34.94	173	13.699	362	49.50	181	19.710	288	34.57	177	15.170	239	70.91	102
26	23.927	247	36.67	174	14.061	306	51.31	229	19.998	258	36.34	181	15.409	214	71.93	88
Okt. 6	24.174	216	38.41	172	14.367	242	53.60	270	20.256	224	38.15	180	15.623	187	72.81	74
16	24.390	181	40.13	168	14.609	172	56.30	301	20.480	190	39.95	178	15.810	159	73.55	61
26	24.571	145	41.81	161	14.781	99	59.31	321	20.670	152	41.73	172	15.969	129	74.16	47
Nov. 5	24.716	106	43.42	152	14.880	23	62.52	328	20.822	112	43.45	163	16.098	99	74.63	34
14	[6] 24.822	66	44.94	140	[6] 14.903	52	65.80	323	[7] 20.934	70	45.08	153	[8] 16.197	66	74.97	23
24	24.888	24	46.34	125	14.851	123	69.03	306	21.004	27	46.61	137	16.263	32	75.20	12
Dez. 4	24.912	18	47.59	107	14.728	190	72.09	279	21.031	18	47.98	120	16.295	3	75.32	2
14	24.894	61	48.66	86	14.538	252	74.88	240	21.013	62	49.18	98	16.292	38	75.34	8
24	24.833	103	49.52	62	14.286	304	77.28	195	20.951	105	50.16	73	16.254	72	75.26	16
34	24.730		50.14		13.982		79.23		20.846		50.89		16.182		75.10	
Mittl. Ort	19.349		33.10		11.777		71.41		15.330		33.59		11.574		63.97	
sec δ, tg δ	1.280		+0.799		1.998		−1.730		1.320		+0.861		1.061		+0.354	
a, a'	+3.8		+14.1		+1.4		+14.0		+3.9		+13.9		+3.4		+13.7	
b, b'	+0.04		− 0.71		−0.08		− 0.71		+0.04		− 0.72		+0.02		− 0.73	

Scheinbare Sternörter 1940

Tag	117) α Fornacis				115) 48 H. Cephei				120) α Persei				121) ο Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$3^h\ 9^m$	Δ	$-29°\ 13'$	Δ	$3^h\ 12^m$	Δ	$+77°\ 30'$	Δ	$3^h\ 20^m$	Δ	$+49°\ 38'$	Δ	$3^h\ 21^m$	Δ	$+8°\ 49'$	Δ
	s		"		s		"		s		"		s		"	
Jan. 0	32.414	132	34.68	158	44.85	63	72.50	193	4.135	147	63.68	100	36.324	80	4.74	62
10	32.282	160	36.26	121	44.22	76	74.43	143	3.988	193	64.68	66	36.244	110	4.12	61
20	32.122	182	37.47	83	43.46	85	75.86	87	3.795	230	65.34	29	36.134	135	3.51	58
30	31.940	197	38.30	42	42.61	91	76.73	28	3.565	258	65.63	9	35.999	154	2.93	54
Febr. 9	31.743	204	38.72	1	41.70	93	77.01	31	3.307	273	65.54	47	35.845	166	2.39	49
19	31.539	203	38.73	41	40.77	91	76.70	89	3.034	272	65.07	84	35.679	168	1.90	42
29	31.336	193	38.32	80	39.86	85	75.81	143	2.762	259	64.23	116	35.511	161	1.48	33
März 10	31.143	172	37.52	119	39.01	75	74.38	191	2.503	230	63.07	144	35.350	145	1.15	23
20	30.971	144	36.33	155	38.26	62	72.47	229	2.273	188	61.63	164	35.205	119	0.92	11
30	30.827	109	34.78	187	37.64	46	70.18	259	2.085	135	59.99	179	35.086	87	0.81	3
Apr. 9	30.718	67	32.91	217	37.18	28	67.59	278	1.950	75	58.20	184	34.999	47	0.84	21
19	30.651	20	30.74	242	36.90	9	64.81	287	1.875	8	56.36	183	34.952	3	1.05	39
29	30.631	29	28.32	262	36.81	10	61.94	286	1.867	62	54.53	174	34.949	43	1.44	57
Mai 9	30.660	78	25.70	277	36.91	29	59.08	273	1.929	130	52.79	158	34.992	90	2.01	77
19	30.738	127	22.93	286	37.20	48	56.35	252	2.059	195	51.21	137	35.082	134	2.78	95
29	30.865	172	20.07	287	37.68	64	53.83	224	2.254	255	49.84	110	35.216	175	3.73	112
Juni 8	31.037	213	17.20	283	38.32	78	51.59	189	2.509	308	48.74	82	35.391	212	4.85	126
18	31.250	248	14.37	270	39.10	91	49.70	149	2.817	351	47.92	49	35.603	243	6.11	137
28	31.498	276	11.67	252	40.01	101	48.21	105	3.168	386	47.43	16	35.846	266	7.48	145
Juli 8	31.774	296	9.15	224	41.02	108	47.16	59	3.554	411	47.27	16	36.112	284	8.93	147
18	32.070	310	6.91	191	42.10	113	46.57	13	3.965	426	47.43	48	36.396	294	10.40	146
28	32.380	315	5.00	153	43.23	116	46.44	35	4.391	431	47.91	79	36.690	297	11.86	140
Aug. 7	32.695	313	3.47	109	44.39	116	46.79	82	4.822	429	48.70	106	36.987	294	13.26	130
17	33.008	304	2.38	62	45.55	113	47.61	125	5.251	417	49.76	131	37.281	286	14.56	115
27	33.312	288	1.76	13	46.68	109	48.86	167	5.668	400	51.07	153	37.567	273	15.71	97
Sept. 6	33.600	267	1.63	37	47.77	102	50.53	206	6.068	377	52.60	172	37.840	256	16.68	78
16	33.867	241	2.00	84	48.79	94	52.59	239	6.445	349	54.32	186	38.096	236	17.46	57
26	34.108	212	2.84	129	49.73	85	54.98	270	6.794	316	56.18	198	38.332	213	18.03	35
Okt. 6	34.320	178	4.13	167	50.58	72	57.68	293	7.110	279	58.16	207	38.545	188	18.38	15
16	34.498	144	5.80	199	51.30	60	60.61	312	7.389	240	60.23	210	38.733	162	18.53	5
26	34.642	108	7.79	223	51.90	45	63.73	324	7.629	196	62.33	212	38.895	134	18.48	22
Nov. 5	34.750	69	10.02	238	52.35	29	66.97	329	7.825	149	64.45	208	39.029	104	18.26	35
14	8 34.819	32	12.40	243	9 52.64	12	70.26	326	11 7.974	99	66.53	201	11 39.133	73	17.91	46
24	34.851	6	14.83	238	52.76	5	73.52	313	8.073	45	68.54	188	39.206	41	17.45	54
Dez. 4	34.845	44	17.21	226	52.71	22	76.65	292	8.118	9	70.42	171	39.247	7	16.91	59
14	34.801	79	19.47	204	52.49	39	79.57	262	8.109	64	72.13	148	39.254	28	16.32	61
24	34.722	113	21.51	176	52.10	56	82.19	224	8.045	118	73.61	121	39.226	61	15.71	61
34	34.609		23.27		51.54		84.43		7.927		74.82		39.165		15.10	
Mittl. Ort	31.262		21.35		37.86		61.95		1.619		57.66		34.836		8.56	
sec δ, tg δ	1.146		−0.559		4.627		+4.517		1.544		+1.177		1.012		+0.155	
a, *a'*	+2.5		+13.6		+7.6		+13.4		+4.3		+12.9		+3.2		+12.8	
b, *b'*	−0.03		− 0.74		+0.20		− 0.74		+0.05		− 0.77		+0.01		− 0.77	

Tag	122) 2 H. Camelop. AR.		Dekl.		125) 5 Tauri AR.		Dekl.	
1940	$3^h\ 24^m$		$+59°\ 43'$		$3^h\ 27^m$		$+12°\ 43'$	
Jan. 0	14.703	206	66.77	143	34.947	76	53.69	47
10	14.497	265	68.20	103	34.871	108	53.22	49
20	14.232	314	69.23	58	34.763	135	52.73	50
30	13.918	348	69.81	12	34.628	155	52.23	50
Febr. 9	13.570	366	69.93	35	34.473	168	51.73	49
19	13.204	365	69.58	80	34.305	172	51.24	46
29	12.839	347	68.78	122	34.133	165	50.78	42
März 10	12.492	310	67.56	158	33.968	149	50.36	36
20	12.182	258	65.98	188	33.819	125	50.00	26
30	11.924	191	64.10	210	33.694	91	49.74	15
Apr. 9	11.733	113	62.00	222	33.603	52	49.59	1
19	11.620	30	59.78	226	33.551	7	49.58	16
29	11.590	57	57.52	220	33.544	39	49.74	34
Mai 9	11.647	143	55.32	208	33.583	87	50.08	52
19	11.790	226	53.24	188	33.670	132	50.60	71
29	12.016	302	51.36	161	33.802	174	51.31	89
Juni 8	12.318	369	49.75	131	33.976	211	52.20	104
18	12.687	425	48.44	96	34.187	243	53.24	117
28	13.112	471	47.48	60	34.430	268	54.41	128
Juli 8	13.583	504	46.88	22	34.698	286	55.69	134
18	14.087	526	46.66	17	34.984	296	57.03	135
28	14.613	535	46.83	54	35.280	301	58.38	133
Aug. 7	15.148	535	47.37	89	35.581	299	59.71	127
17	15.683	524	48.26	122	35.880	291	60.98	116
27	16.207	505	49.48	152	36.171	279	62.14	103
Sept. 6	16.712	477	51.00	179	36.450	263	63.17	86
16	17.189	443	52.79	204	36.713	243	64.03	69
26	17.632	402	54.83	222	36.956	221	64.72	51
Okt. 6	18.034	356	57.05	238	37.177	197	65.23	32
16	18.390	304	59.43	250	37.374	171	65.55	16
26	18.694	247	61.93	255	37.545	143	65.71	0
Nov. 5	18.941	185	64.48	256	37.688	113	65.71	13
14*)	[12] 19.126	118	67.04	252	[12] 37.801	82	65.58	23
24	19.244	47	69.56	240	37.883	49	65.35	31
Dez. 4	19.291	25	71.96	223	37.932	14	65.04	37
14	19.266	97	74.19	198	37.946	22	64.67	42
24	19.169	168	76.17	167	37.924	57	64.25	44
34	19.001		77.84		37.867		63.81	
Mittl. Ort	11.473		59.36		33.384		56.76	
sec δ, tg δ	1.984		+1.714		1.025		+0.226	
a, a'	+4.9		+12.6		+3.3		+12.4	
b, b'	+0.07		− 0.78		+0.01		− 0.79	

Tag	127) ε Eridani[1] AR.		Dekl.		131) δ Persei AR.		Dekl.	
1940	$3^h\ 30^m$		$-9°\ 39'$		$3^h\ 38^m$		$+47°\ 35'$	
Jan. 0	7.430	90	45.80	125	41.036	119	55.11	104
10	7.340	119	47.05	106	40.917	168	56.15	74
20	7.221	144	48.11	84	40.749	209	56.89	41
30	7.077	163	48.95	60	40.540	240	57.30	6
Febr. 9	6.914	174	49.55	36	40.300	260	57.36	30
19	6.740	177	49.91	10	40.040	265	57.06	64
29	6.563	171	50.01	17	39.775	257	56.42	96
März 10	6.392	156	49.84	42	39.518	233	55.46	123
20	6.236	132	49.42	68	39.285	198	54.23	145
30	6.104	99	48.74	93	39.087	150	52.78	161
Apr. 9	6.005	62	47.81	118	38.937	93	51.17	169
19	5.943	20	46.63	141	38.844	31	49.48	170
29	5.923	26	45.22	162	38.813	35	47.78	164
Mai 9	5.949	71	43.60	181	38.848	102	46.14	151
19	6.020	116	41.79	195	38.950	166	44.63	134
29	6.136	158	39.84	205	39.116	225	43.29	111
Juni 8	6.294	195	37.79	211	39.341	278	42.18	84
18	6.489	227	35.68	211	39.619	323	41.34	56
28	6.716	252	33.57	205	39.942	360	40.78	27
Juli 8	6.968	272	31.52	193	40.302	387	40.51	4
18	7.240	284	29.59	177	40.689	406	40.55	33
28	7.524	289	27.82	153	41.095	414	40.88	60
Aug. 7	7.813	288	26.29	126	41.509	416	41.48	86
17	8.101	281	25.03	94	41.925	409	42.34	110
27	8.382	269	24.09	59	42.334	396	43.44	131
Sept. 6	8.651	253	23.50	23	42.730	378	44.75	148
16	8.904	232	23.27	13	43.108	353	46.23	162
26	9.136	209	23.40	49	43.461	325	47.85	174
Okt. 6	9.345	184	23.89	80	43.786	293	49.59	183
16	9.529	156	24.69	109	44.079	257	51.42	189
26	9.685	127	25.78	131	44.336	217	53.31	192
Nov. 5	9.812	97	27.09	147	44.553	173	55.23	190
14*)	[13] 9.909	64	28.56	157	[15] 44.726	125	57.13	186
24	9.973	31	30.13	161	44.851	74	58.99	177
Dez. 4	10.004	3	31.74	157	44.925	20	60.76	163
14	10.001	38	33.31	148	44.945	35	62.39	145
24	9.963	70	34.79	135	44.910	89	63.84	123
34	9.893		36.14		44.821		65.07	
Mittl. Ort	6.089		36.73		38.532		50.98	
sec δ, tg δ	1.014		−0.170		1.483		+1.095	
a, a'	+2.9		+12.2		+4.3		+11.6	
b, b'	−0.01		− 0.79		+0.04		− 0.82	

[1]) Die jährliche Parallaxe (0″.310) ist bereits berücksichtigt.

*) Bei Stern 131) lies Nov. 15.

Scheinbare Sternörter 1940

Tag	134) ν Persei AR.	Δ	Dekl.	Δ	141) β Reticuli AR.	Δ	Dekl.	Δ
1940	$3^h 41^m$		$+42° 23'$		$3^h 43^m$		$-64° 59'$	
Jan. 0	8.825	101	29.63	83	28.16	37	61.90	213
10	8.724	146	30.46	57	27.79	43	64.03	162
20	8.578	184	31.03	29	27.36	48	65.65	106
30	8.394	214	31.32	1	26.88	51	66.71	49
Febr. 9	8.180	233	31.31	32	26.37	52	67.20	10
19	7.947	239	30.99	61	25.85	52	67.10	66
29	7.708	232	30.38	88	25.33	51	66.44	121
März 10	7.476	212	29.50	110	24.82	47	65.23	171
20	7.264	180	28.40	129	24.35	43	63.52	216
30	7.084	137	27.11	140	23.92	37	61.36	257
Apr. 9	6.947	86	25.71	145	23.55	29	58.79	292
19	6.861	28	24.26	145	23.26	22	55.87	320
29	6.833	33	22.81	137	23.04	13	52.67	341
Mai 9	6.866	93	21.44	123	22.91	4	49.26	353
19	6.959	152	20.21	106	22.87	6	45.73	358
29	7.111	208	19.15	85	22.93	14	42.15	354
Juni 8	7.319	257	18.30	60	23.07	23	38.61	342
18	7.576	298	17.70	33	23.30	31	35.19	320
28	7.874	332	17.37	6	23.61	39	31.99	291
Juli 8	8.206	358	17.31	20	24.00	44	29.08	252
18	8.564	374	17.51	45	24.44	49	26.56	207
28	8.938	383	17.96	69	24.93	53	24.49	154
Aug. 7	9.321	384	18.65	91	25.46	55	22.95	98
17	9.705	378	19.56	109	26.01	56	21.97	36
27	10.083	366	20.65	126	26.57	54	21.61	27
Sept. 6	10.449	349	21.91	138	27.11	52	21.88	89
16	10.798	327	23.29	148	27.63	47	22.77	149
26	11.125	302	24.77	156	28.10	42	24.26	205
Okt. 6	11.427	272	26.33	161	28.52	36	26.31	253
16	11.699	240	27.94	163	28.88	28	28.84	292
26	11.939	205	29.57	164	29.16	19	31.76	321
Nov. 5	12.144	164	31.21	160	29.35	10	34.97	337
15	16 12.308	122	32.81	156	16 29.45	1	38.34	342
24	12.430	76	34.37	147	29.46	8	41.76	332
Dez. 4	12.506	27	35.84	135	29.38	17	45.08	312
14	12.533	23	37.19	120	29.21	25	48.20	282
24	12.510	74	38.39	99	28.96	33	51.02	240
34	12.436		39.38		28.63		53.42	
Mittl. Ort	6.531		26.68		26.40		43.20	
sec δ, tg δ	1.354		+0.913		2.366		−2.144	
a, *a'*	+4.1		+11.4		+0.7		+11.2	
b, *b'*	+0.03		− 0.82		−0.08		− 0.83	

Tag	139) η Tauri AR.	Δ	Dekl.	Δ	138) γ Camelop. AR.	Δ	Dekl.	Δ
1940	$3^h 43^m$		$+23° 55'$		$3^h 43^m$		$+71° 8'$	
Jan. 0	56.566	71	14.81	2	64.36	32	67.30	202
10	56.495	106	14.83	9	64.04	43	69.32	158
20	56.389	139	14.74	20	63.61	51	70.90	111
30	56.250	164	14.54	31	63.10	56	72.01	58
Febr. 9	56.086	180	14.23	41	62.54	60	72.59	3
19	55.906	187	13.82	52	61.94	61	72.62	52
29	55.719	183	13.30	59	61.33	59	72.10	103
März 10	55.536	169	12.71	64	60.74	54	71.07	151
20	55.367	144	12.07	65	60.20	45	69.56	191
30	55.223	110	11.42	64	59.75	37	67.65	223
Apr. 9	55.113	69	10.78	57	59.38	26	65.42	246
19	55.044	22	10.21	48	59.12	13	62.96	260
29	55.022	28	9.73	34	58.99	1	60.36	264
Mai 9	55.050	78	9.39	18	59.00	13	57.72	258
19	55.128	126	9.21	0	59.13	26	55.14	245
29	55.254	172	9.21	18	59.39	38	52.69	222
Juni 8	55.426	213	9.39	38	59.77	49	50.47	194
18	55.639	247	9.77	56	60.26	58	48.53	161
28	55.886	276	10.33	72	60.84	65	46.92	123
Juli 8	56.162	296	11.05	86	61.49	72	45.69	82
18	56.458	311	11.91	97	62.21	77	44.87	41
28	56.769	317	12.88	105	62.98	79	44.46	2
Aug. 7	57.086	318	13.93	110	63.77	81	44.48	44
17	57.404	313	15.03	110	64.58	80	44.92	85
27	57.717	302	16.13	109	65.38	78	45.77	124
Sept. 6	58.019	289	17.22	103	66.16	75	47.01	160
16	58.308	270	18.25	96	66.91	71	48.61	194
26	58.578	249	19.21	88	67.62	65	50.55	223
Okt. 6	58.827	226	20.09	79	68.27	58	52.78	249
16	59.053	200	20.88	69	68.85	51	55.27	270
26	59.253	172	21.57	60	69.36	41	57.97	286
Nov. 5	59.425	140	22.17	51	69.77	32	60.83	295
15	17 59.565	107	22.68	43	17 70.09	21	63.78	297
24	59.672	71	23.11	35	70.30	9	66.75	291
Dez. 4	59.743	32	23.46	27	70.39	3	69.66	279
14	59.775	7	23.73	18	70.36	14	72.45	257
24	59.768	47	23.91	10	70.22	26	75.02	226
34	59.721		24.01		69.96		77.28	
Mittl. Ort	54.759		16.02		59.29		60.27	
sec δ, tg δ	1.094		+0.444		3.095		+2.929	
a, *a'*	+3.6		+11.2		+6.3		+11.2	
b, *b'*	+0.02		− 0.83		+0.11		− 0.83	

Tag	140) τ^6 Eridani AR.		Dekl.		143) 138 G. Eridani AR.		Dekl.		146) γ Hydri AR.		Dekl.		144) ζ Persei AR.		Dekl.	
1940	$3^h 44^m$		$-23° 25'$		$3^h 47^m$		$-36° 22'$		$3^h 48^m$		$-74° 25'$		$3^h 50^m$		$+31° 42'$	
	s		"		s		"		s		"		s		"	
Jan. 0	17.266	99	45.28	175	13.815	133	66.04	202	11.28	64	42.84	210	23.252	73	25.51	38
10	17.167	132	47.03	144	13.682	170	68.06	164	10.64	74	44.94	158	23.179	113	25.89	23
20	17.035	160	48.47	111	13.512	199	69.70	121	9.90	80	46.52	101	23.066	148	26.12	5
30	16.875	182	49.58	75	13.313	223	70.91	76	9.10	85	47.53	43	22.918	177	26.17	14
Febr. 9	16.693	196	50.33	37	13.090	237	71.67	28	8.25	87	47.96	16	22.741	196	26.03	33
19	16.497	202	50.70	0	12.853	243	71.95	18	7.38	87	47.80	72	22.545	205	25.70	51
29	16.295	197	50.70	38	12.610	237	71.77	64	6.51	84	47.08	126	22.340	200	25.19	67
März 10	16.098	184	50.32	73	12.373	222	71.13	108	5.67	79	45.82	176	22.140	186	24.52	80
20	15.914	161	49.59	109	12.151	197	70.05	149	4.88	71	44.06	222	21.954	160	23.72	89
30	15.753	130	48.50	142	11.954	164	68.56	187	4.17	63	41.84	261	21.794	124	22.83	94
Apr. 9	15.623	92	47.08	171	11.790	123	66.69	220	3.54	52	39.23	294	21.670	81	21.89	94
19	15.531	50	45.37	199	11.667	75	64.49	251	3.02	40	36.29	322	21.589	31	20.95	88
29	15.481	3	43.38	223	11.592	25	61.98	274	2.62	27	33.07	342	21.558	22	20.07	79
Mai 9	15.478	45	41.15	241	11.567	27	59.24	292	2.35	14	29.65	353	21.580	76	19.28	65
19	15.523	92	38.74	254	11.594	80	56.32	304	2.21	1	26.12	357	21.656	128	18.63	48
29	15.615	137	36.20	262	11.674	130	53.28	308	2.22	15	22.55	352	21.784	177	18.15	29
Juni 8	15.752	179	33.58	263	11.804	178	50.20	305	2.37	28	19.03	339	21.961	220	17.86	8
18	15.931	215	30.95	258	11.982	220	47.15	294	2.65	41	15.64	316	22.181	259	17.78	13
28	16.146	245	28.37	245	12.202	256	44.21	274	3.06	53	12.48	286	22.440	289	17.91	33
Juli 8	16.391	269	25.92	225	12.458	284	41.47	248	3.59	63	9.62	247	22.729	312	18.24	52
18	16.660	287	23.67	198	12.742	307	38.99	214	4.22	71	7.15	201	23.041	329	18.76	70
28	16.947	296	21.69	166	13.049	322	36.85	172	4.93	77	5.14	149	23.370	337	19.46	83
Aug. 7	17.243	300	20.03	128	13.371	327	35.13	126	5.70	82	3.65	91	23.707	339	20.29	95
17	17.543	297	18.75	86	13.698	325	33.87	76	6.52	83	2.74	30	24.046	335	21.24	104
27	17.840	287	17.89	40	14.023	318	33.11	21	7.35	82	2.44	33	24.381	325	22.28	110
Sept. 6	18.127	273	17.49	7	14.341	302	32.90	33	8.17	79	2.77	96	24.706	311	23.38	113
16	18.400	254	17.56	54	14.643	280	33.23	87	8.96	72	3.73	155	25.017	294	24.51	113
26	18.654	231	18.10	98	14.923	254	34.10	138	9.68	64	5.28	211	25.311	272	25.64	112
Okt. 6	18.885	205	19.08	139	15.177	223	35.48	184	10.32	53	7.39	258	25.583	248	26.76	110
16	19.090	175	20.47	173	15.400	188	37.32	222	10.85	41	9.97	296	25.831	221	27.86	106
26	19.265	144	22.20	200	15.588	150	39.54	252	11.26	28	12.93	324	26.052	191	28.92	101
Nov. 5	19.409	109	24.20	220	15.738	109	42.06	273	11.54	12	16.17	340	26.243	158	29.93	95
15	17 19.518	73	26.40	231	17 15.847	66	44.79	283	18 11.66	2	19.57	343	18 26.401	121	30.88	90
24	19.591	36	28.71	233	15.913	21	47.62	282	11.64	18	23.00	334	26.522	82	31.78	82
Dez. 4	19.627	2	31.04	225	15.934	22	50.44	271	11.46	32	26.34	312	26.604	40	32.60	73
14	19.625	41	33.29	211	15.912	67	53.15	251	11.14	46	29.46	279	26.644	3	33.33	62
24	19.584	77	35.40	189	15.845	109	55.66	222	10.68	57	32.25	238	26.641	48	33.95	50
34	19.507		37.29		15.736		57.88		10.11		34.63		26.593		34.45	
Mittl. Ort	15.907		32.97		12.437		51.19		8.79		23.70		21.252		25.41	
sec δ, tg δ	1.090		−0.433		1.242		−0.737		3.724		−3.587		1.175		+0.618	
a, *a'*	+2.6		+11.2		+2.2		+11.0		−0.9		+10.9		+3.8		+10.7	
b, *b'*	−0.02		− 0.83		−0.03		− 0.84		−0.13		− 0.84		+0.02		− 0.84	

Scheinbare Sternörter 1940

Tag	145) 9 H. Camelop.				147) ε Persei				148) ξ Persei				149) γ Eridani			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	3ʰ 52ᵐ		+60° 55′		3ʰ 53ᵐ		+39° 50′		3ʰ 55ᵐ		+35° 37′		3ʰ 55ᵐ		−13° 40′	
	s		"		s		"		s		"		s		"	
Jan. 0	3.71	18	72.29	169	51.431	83	19.58	78	6.022	74	13.30	58	15.135	76	51.02	151
10	3.53	24	73.98	133	51.348	129	20.36	55	5.948	117	13.88	40	15.059	109	52.53	129
20	3.29	31	75.31	92	51.219	168	20.91	31	5.831	156	14.28	19	14.950	138	53.82	104
30	2.98	35	76.23	46	51.051	199	21.22	5	5.675	185	14.47	$\overline{3}$	14.812	162	54.86	76
Febr. 9	2.63	38	76.69	0	50.852	221	21.27	23	5.490	207	14.44	26	14.650	178	55.62	47
19	2.25	39	76.69	47	50.631	230	21.04	50	5.283	215	14.18	48	14.472	186	56.09	18
29	1.86	38	76.22	91	50.401	227	20.54	74	5.068	214	13.70	69	14.286	184	56.27	$\overline{12}$
März 10	1.48	35	75.31	131	50.174	211	19.80	96	4.854	198	13.01	85	14.102	173	56.15	42
20	1.13	30	74.00	165	49.963	182	18.84	112	4.656	171	12.16	99	13.929	153	55.73	71
30	0.83	24	72.35	193	49.781	143	17.72	124	4.485	135	11.17	108	13.776	124	55.02	99
Apr. 9	0.59	17	70.42	212	49.638	95	16.48	130	4.350	90	10.09	110	13.652	88	54.03	125
19	0.42	8	68.30	222	49.543	40	15.18	129	4.260	38	8.99	108	13.564	48	52.78	151
29	0.34	0	66.08	224	49.503	18	13.89	123	4.222	17	7.91	100	13.516	3	51.27	173
Mai 9	0.34	10	63.84	218	49.521	76	12.66	112	4.239	73	6.91	89	13.513	43	49.54	193
19	0.44	18	61.66	204	49.597	134	11.54	96	4.312	127	6.02	72	13.556	88	47.61	209
29	0.62	26	59.62	184	49.731	188	10.58	76	4.439	178	5.30	53	13.644	131	45.52	219
Juni 8	0.88	34	57.78	158	49.919	236	9.82	55	4.617	225	4.77	32	13.775	171	43.33	224
18	1.22	40	56.20	127	50.155	278	9.27	30	4.842	264	4.45	10	13.946	206	41.09	225
28	1.62	46	54.93	95	50.433	312	8.97	6	5.106	297	4.35	$\overline{12}$	14.152	236	38.84	218
Juli 8	2.08	50	53.98	59	50.745	339	8.91	18	5.403	322	4.47	33	14.388	258	36.66	206
18	2.58	53	53.39	22	51.084	357	9.09	40	5.725	340	4.80	53	14.646	276	34.60	187
28	3.11	54	53.17	$\overline{14}$	51.441	368	9.49	62	6.065	349	5.33	71	14.922	285	32.73	162
Aug. 7	3.65	56	53.31	49	51.809	371	10.11	81	6.414	353	6.04	85	15.207	289	31.11	132
17	4.21	55	53.80	83	52.180	367	10.92	97	6.767	350	6.89	98	15.496	287	29.79	98
27	4.76	55	54.63	115	52.547	359	11.89	110	7.117	340	7.87	108	15.783	280	28.81	60
Sept. 6	5.31	52	55.78	144	52.906	344	12.99	121	7.457	327	8.95	115	16.063	268	28.21	20
16	5.83	49	57.22	172	53.250	325	14.20	130	7.784	309	10.10	119	16.331	252	28.01	21
26	6.32	46	58.94	195	53.575	302	15.50	136	8.093	288	11.29	121	16.583	231	28.22	59
Okt. 6	6.78	41	60.89	214	53.877	276	16.86	141	8.381	263	12.50	123	16.814	209	28.81	96
16	7.19	37	63.03	231	54.153	247	18.27	142	8.644	236	13.73	122	17.023	184	29.77	127
26	7.56	31	65.34	243	54.400	213	19.69	142	8.880	204	14.95	120	17.207	155	31.04	153
Nov. 5	7.87	24	67.77	249	54.613	177	21.11	142	9.084	170	16.15	116	17.362	124	32.57	172
15	19 8.11	18	70.26	251	19 54.790	135	22.53	138	19 9.254	131	17.31	112	19 17.486	92	34.29	184
24	8.29	11	72.77	246	54.925	92	23.91	130	9.385	90	18.43	105	17.578	57	36.13	189
Dez. 4	8.40	2	75.23	234	55.017	43	25.21	121	9.475	46	19.48	96	17.635	21	38.02	186
14	8.42	$\overline{5}$	77.57	216	55.060	5	26.42	109	9.521	1	20.44	86	17.656	17	39.88	176
24	8.37	13	79.73	190	55.055	55	27.51	91	9.520	47	21.30	71	17.639	53	41.64	162
34	8.24		81.63		55.000		28.42		9.473		22.01		17.586		43.26	
Mittl. Ort	0.20		67.20		49.181		18.10		3.901		12.73		13.691		40.67	
sec δ, tg δ	2.059		+1.799		1.302		+0.834		1.230		+0.717		1.029		−0.243	
a, *a′*	+5.1		+10.6		+4.0		+10.5		+3.9		+10.4		+2.8		+10.4	
b, *b′*	+0.06		− 0.85		+0.03		− 0.85		+0.02		− 0.86		−0.01		− 0.86	

Obere Kulmination Greenwich

Tag	150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.		152) 48 Persei AR.		152) 48 Persei Dekl.		154) o^1 Eridani AR.		154) o^1 Eridani Dekl.	
1940	$3^h\ 57^m$		+12° 19′		$3^h\ 59^m$		+5° 49′		$4^h\ 4^m$		+47° 33′		$4^h\ 8^m$		−6° 59′	
	s		″		s		″		s		″		s		″	
Jan. 0	22.811	57	15.50	49	59.272	56	21.30	78	20.359	91	17.42	119	57.591	58	42.85	132
10	22.754	92	15.01	48	59.216	91	20.52	71	20.268	145	18.61	92	57.533	94	44.17	116
20	22.662	124	14.53	46	59.125	123	19.81	63	20.123	192	19.53	63	57.439	125	45.33	96
30	22.538	150	14.07	45	59.002	147	19.18	55	19.931	230	20.16	30	57.314	152	46.29	74
Febr. 9	22.388	167	13.62	43	58.855	166	18.63	45	19.701	256	20.46	4	57.162	170	47.03	51
19	22.221	177	13.19	39	58.689	175	18.18	35	19.445	269	20.42	38	56.992	180	47.54	28
29	22.044	176	12.80	35	58.514	174	17.83	24	19.176	266	20.04	71	56.812	182	47.82	5
März 10	21.868	165	12.45	30	58.340	164	17.59	12	18.910	250	19.33	101	56.630	172	47.87	20
20	21.703	143	12.15	21	58.176	144	17.47	2	18.660	220	18.32	125	56.458	154	47.67	44
30	21.560	114	11.94	10	58.032	116	17.49	17	18.440	176	17.07	145	56.304	127	47.23	68
Apr. 9	21.446	77	11.84	1	57.916	79	17.66	33	18.264	124	15.62	156	56.177	93	46.55	92
19	21.369	35	11.85	16	57.837	39	17.99	50	18.140	64	14.06	163	56.084	54	45.63	114
29	21.334	11	12.01	32	57.798	6	18.49	68	18.076	1	12.43	162	56.030	11	44.49	136
Mai 9	21.345	58	12.33	48	57.804	52	19.17	86	18.077	67	10.81	154	56.019	35	43.13	155
19	21.403	104	12.81	65	57.856	96	20.03	103	18.144	132	9.27	141	56.054	80	41.58	171
29	21.507	147	13.46	81	57.952	140	21.06	117	18.276	193	7.86	123	56.134	122	39.87	184
Juni 8	21.654	186	14.27	95	58.092	178	22.23	129	18.469	249	6.63	102	56.256	162	38.03	192
18	21.840	221	15.22	107	58.270	212	23.52	138	18.718	297	5.61	76	56.418	198	36.11	196
28	22.061	249	16.29	117	58.482	241	24.90	144	19.015	338	4.85	50	56.616	226	34.15	194
Juli 8	22.310	271	17.46	122	58.723	263	26.34	144	19.353	370	4.35	23	56.842	251	32.21	187
18	22.581	286	18.68	123	58.986	278	27.78	141	19.723	393	4.12	5	57.093	268	30.34	173
28	22.867	294	19.91	120	59.264	287	29.19	132	20.116	408	4.17	31	57.361	280	28.61	154
Aug. 7	23.161	297	21.11	114	59.551	290	30.51	120	20.524	415	4.48	56	57.641	284	27.07	130
17	23.458	295	22.25	104	59.841	289	31.71	103	20.939	413	5.04	79	57.925	285	25.77	102
27	23.753	286	23.29	90	60.130	281	32.74	82	21.352	406	5.83	101	58.210	279	24.75	70
Sept. 6	24.039	275	24.19	73	60.411	269	33.56	61	21.758	393	6.84	118	58.489	269	24.05	36
16	24.314	260	24.92	56	60.680	255	34.17	36	22.151	374	8.02	135	58.758	256	23.69	0
26	24.574	241	25.48	38	60.935	238	34.53	13	22.525	350	9.37	149	59.014	238	23.69	34
Okt. 6	24.815	221	25.86	19	61.173	217	34.66	11	22.875	322	10.86	159	59.252	219	24.03	66
16	25.036	197	26.05	3	61.390	194	34.55	31	23.197	290	12.45	169	59.471	195	24.69	96
26	25.233	172	26.08	12	61.584	168	34.24	49	23.487	252	14.14	175	59.666	169	25.65	120
Nov. 5	25.405	143	25.96	24	61.752	140	33.75	64	23.739	210	15.89	178	59.835	141	26.85	138
15	25.548	111	25.72	33	61.892	109	33.11	74	23.949	164	17.67	177	59.976	110	28.23	151
24	[20] 25.659	78	25.39	40	[21] 62.001	77	32.37	80	[22] 24.113	113	19.44	174	[23] 60.086	75	29.74	157
Dez. 4	25.737	42	24.99	44	62.078	40	31.57	82	24.226	57	21.18	165	60.161	40	31.31	156
14	25.779	3	24.55	46	62.118	4	30.75	82	24.283	1	22.83	153	60.201	2	32.87	150
24	25.782	34	24.09	47	62.122	34	29.93	79	24.282	60	24.36	134	60.203	36	34.37	140
34	25.748		23.62		62.088		29.14		24.222		25.70		60.167		35.77	
Mittl. Ort	21.141		20.08		57.668		27.45		17.758		15.40		56.058		33.66	
sec δ, tg δ	1.024		+0.218		1.005		+0.102		1.482		+1.093		1.008		−0.123	
a, a'	+3.3		+10.2		+3.2		+10.0		+4.4		+9.7		+2.9		+9.3	
b, b'	+0.01		− 0.86		0.00		− 0.87		+0.04		−0.88		0.00		−0.88	

Scheinbare Sternörter 1940

Tag	155) α Horologii AR.		155) α Horologii Dekl.		156) α Reticuli AR.		156) α Reticuli Dekl.	
1940	$4^h\ 11^m$		$-42°\ 26'$		$4^h\ 13^m$		$-62°\ 37'$	
	s		"		s		"	
Jan. 0	62.256	138	44.36	235	40.83	30	42.65	250
10	62.118	182	46.71	195	40.53	36	45.15	202
20	61.936	218	48.66	150	40.17	41	47.17	151
30	61.718	247	50.16	102	39.76	46	48.68	95
Febr. 9	61.471	267	51.18	52	39.30	48	49.63	39
19	61.204	278	51.70	2	38.82	49	50.02	19
29	60.926	276	51.72	48	38.33	48	49.83	74
März 10	60.650	264	51.24	96	37.85	47	49.09	126
20	60.386	242	50.28	141	37.38	43	47.83	175
30	60.144	209	48.87	183	36.95	38	46.08	220
Apr. 9	59.935	169	47.04	220	36.57	32	43.88	259
19	59.766	121	44.84	253	36.25	25	41.29	293
29	59.645	69	42.31	280	36.00	17	38.36	319
Mai 9	59.576	13	39.51	301	35.83	9	35.17	338
19	59.563	43	36.50	316	35.74	1	31.79	350
29	59.606	98	33.34	322	35.73	8	28.29	353
Juni 8	59.704	151	30.12	321	35.81	16	24.76	347
18	59.855	199	26.91	310	35.97	24	21.29	333
28	60.054	242	23.81	293	36.21	31	17.96	309
Juli 8	60.296	279	20.88	267	36.52	38	14.87	277
18	60.575	307	18.21	232	36.90	42	12.10	236
28	60.882	329	15.89	190	37.32	47	9.74	189
Aug. 7	61.211	341	13.99	143	37.79	50	7.85	134
17	61.552	347	12.56	89	38.29	51	6.51	75
27	61.899	344	11.67	33	38.80	51	5.76	12
Sept. 6	62.243	333	11.34	25	39.31	49	5.64	51
16	62.576	315	11.59	84	39.80	47	6.15	114
26	62.891	291	12.43	138	40.27	43	7.29	173
Okt. 6	63.182	260	13.81	189	40.70	38	9.02	226
16	63.442	225	15.70	233	41.08	32	11.28	272
26	63.667	184	18.03	268	41.40	24	14.00	308
Nov. 5	63.851	140	20.71	293	41.64	16	17.08	332
15	63.991	92	23.64	307	41.80	8	20.40	344
24*)	[24] 64.083	42	26.71	310	[24] 41.88	0	23.84	345
Dez. 4	64.125	9	29.81	302	41.88	10	27.29	331
14	64.116	60	32.83	282	41.78	17	30.60	307
24	64.056	108	35.65	254	41.61	25	33.67	273
34	63.948		38.19		41.36		36.40	
Mittl. Ort	60.687		28.87		38.80		25.05	
sec δ, tg δ	1.355		−0.914		2.175		−1.931	
a, a′	+2.0		+9.1		+0.8		+9.0	
b, b′	−0.03		−0.89		−0.06		−0.89	

Tag	160) υ⁴ Eridani *m* AR.		160) υ⁴ Eridani *m* Dekl.		162) δ Tauri AR.		162) δ Tauri Dekl.	
1940	$4^h\ 15^m$		$-33°\ 56'$		$4^h\ 19^m$		$+17°\ 24'$	
	s		"		s		"	
Jan. 0	38.861	104	51.62	221	30.058	40	7.59	24
10	38.757	143	53.83	186	30.018	80	7.35	26
20	38.614	179	55.69	147	29.938	115	7.09	29
30	38.435	207	57.16	103	29.823	146	6.80	30
Febr. 9	38.228	228	58.19	59	29.677	169	6.50	32
19	38.000	238	58.78	13	29.508	182	6.18	35
29	37.762	238	58.91	33	29.326	185	5.83	36
März 10	37.524	229	58.58	76	29.141	177	5.47	35
20	37.295	209	57.82	118	28.964	158	5.12	33
30	37.086	180	56.64	157	28.806	131	4.79	29
Apr. 9	36.906	143	55.07	193	28.675	96	4.50	21
19	36.763	100	53.14	225	28.579	53	4.29	11
29	36.663	52	50.89	251	28.526	8	4.18	1
Mai 9	36.611	2	48.38	274	28.518	39	4.19	15
19	36.609	50	45.64	289	28.557	87	4.34	29
29	36.659	99	42.75	297	28.644	132	4.63	44
Juni 8	36.758	147	39.78	299	28.776	173	5.07	59
18	36.905	190	36.79	292	28.949	209	5.66	72
28	37.095	228	33.87	279	29.158	241	6.38	82
Juli 8	37.323	259	31.08	256	29.399	265	7.20	91
18	37.582	285	28.52	226	29.664	283	8.11	96
28	37.867	303	26.26	189	29.947	296	9.07	98
Aug. 7	38.170	314	24.37	146	30.243	301	10.05	95
17	38.484	317	22.91	98	30.544	302	11.00	90
27	38.801	315	21.93	45	30.846	298	11.90	82
Sept. 6	39.116	305	21.48	8	31.144	289	12.72	71
16	39.421	290	21.56	63	31.433	277	13.43	59
26	39.711	270	22.19	115	31.710	262	14.02	45
Okt. 6	39.981	243	23.34	163	31.972	244	14.47	32
16	40.224	214	24.97	205	32.216	222	14.79	19
26	40.438	180	27.02	239	32.438	197	14.98	7
Nov. 5	40.618	142	29.41	264	32.635	170	15.05	1
15	40.760	101	32.05	279	32.805	139	15.04	8
24*)	[25] 40.861	58	34.84	284	[26] 32.944	104	14.96	14
Dez. 4	40.919	13	37.68	278	33.048	66	14.82	17
14	40.932	32	40.46	262	33.114	26	14.65	20
24	40.900	77	43.08	237	33.140	15	14.45	21
34	40.823		45.45		33.125		14.24	
Mittl. Ort	37.328		37.43		28.248		12.18	
sec δ, tg δ	1.205		−0.673		1.048		+0.314	
a, a′	+2.3		+8.8		+3.5		+8.5	
b, b′	−0.02		−0.90		+0.01		−0.91	

*) Bei Stern 160) und 162) lies Nov. 25.

Obere Kulmination Greenwich

Tag	164) ε Tauri AR.		164) ε Tauri Dekl.		168) α Tauri AR.		168) α Tauri Dekl.		171) α Doradus AR.		171) α Doradus Dekl.		169) ν Eridani AR.		169) ν Eridani Dekl.	
1940	$4^h\ 25^m$		$+19°\ 2'$		$4^h\ 32^m$		$+16°\ 23'$		$4^h\ 32^m$		$-55°\ 9'$		$4^h\ 33^m$		$-3°\ 28'$	
Jan. 0	$8^s.403$	36	$51''.80$	16	$30^s.306$	29	$19''.49$	30	$43^s.762$	193	$82''.33$	268	$20^s.762$	37	$34''.43$	126
10	8.367	76	51.64	19	30.277	71	19.19	29	43.569	251	85.01	226	20.725	76	35.69	111
20	8.291	114	51.45	21	30.206	109	18.90	30	43.318	300	87.27	178	20.649	111	36.80	94
30	8.177	146	51.24	25	30.097	140	18.60	30	43.018	339	89.05	126	20.538	142	37.74	76
Febr. 9	8.031	169	50.99	29	29.957	165	18.30	31	42.679	368	90.31	71	20.396	164	38.50	57
19	7.862	184	50.70	32	29.792	182	17.99	31	42.311	384	91.02	16	20.232	179	39.07	36
29	7.678	187	50.38	35	29.610	186	17.68	31	41.927	385	91.18	38	20.053	183	39.43	15
März 10	7.491	181	50.03	37	29.424	180	17.37	30	41.542	374	90.80	91	19.870	179	39.58	6
20	7.310	163	49.66	36	29.244	164	17.07	28	41.168	350	89.89	140	19.691	164	39.52	27
30	7.147	136	49.30	33	29.080	139	16.79	22	40.818	315	88.49	187	19.527	140	39.25	49
Apr. 9	7.011	100	48.97	28	28.941	105	16.57	16	40.503	268	86.62	229	19.387	109	38.76	69
19	6.911	58	48.69	19	28.836	65	16.41	6	40.235	212	84.33	265	19.278	71	38.07	91
29	6.853	13	48.50	9	28.771	20	16.35	6	40.023	151	81.68	295	19.207	29	37.16	111
Mai 9	6.840	35	48.41	4	28.751	27	16.41	18	39.872	84	78.73	319	19.178	15	36.05	129
19	6.875	82	48.45	19	28.778	73	16.59	32	39.788	14	75.54	335	19.193	59	34.76	146
29	6.957	128	48.64	32	28.851	119	16.91	46	39.774	55	72.19	343	19.252	103	33.30	159
Juni 8	7.085	170	48.96	47	28.970	160	17.37	59	39.829	123	68.76	343	19.355	143	31.71	169
18	7.255	207	49.43	61	29.130	198	17.96	71	39.952	187	65.33	334	19.498	179	30.02	174
28	7.462	238	50.04	72	29.328	229	18.67	81	40.139	247	61.99	315	19.677	210	28.28	175
Juli 8	7.700	265	50.76	81	29.557	255	19.48	89	40.386	299	58.84	289	19.887	237	26.53	171
18	7.965	283	51.57	87	29.812	276	20.37	92	40.685	344	55.95	252	20.124	256	24.82	161
28	8.248	296	52.44	89	30.088	288	21.29	93	41.029	378	53.43	209	20.380	271	23.21	145
Aug. 7	8.544	303	53.33	90	30.376	297	22.22	89	41.407	404	51.34	158	20.651	279	21.76	126
17	8.847	305	54.23	85	30.673	299	23.11	84	41.811	420	49.76	102	20.930	283	20.50	101
27	9.152	301	55.08	79	30.972	297	23.95	74	42.231	425	48.74	42	21.213	281	19.49	72
Sept. 6	9.453	293	55.87	70	31.269	291	24.69	62	42.656	419	48.32	22	21.494	275	18.77	41
16	9.746	282	56.57	59	31.560	281	25.31	49	43.075	401	48.54	84	21.769	265	18.36	8
26	10.028	268	57.16	47	31.841	267	25.80	34	43.476	375	49.38	144	22.034	251	18.28	24
Okt. 6	10.296	250	57.63	35	32.108	251	26.14	21	43.851	338	50.82	201	22.285	235	18.52	54
16	10.546	229	57.98	24	32.359	231	26.35	8	44.189	294	52.83	249	22.520	216	19.06	83
26	10.775	205	58.22	14	32.590	208	26.43	4	44.483	241	55.32	289	22.736	192	19.89	106
Nov. 5	10.980	178	58.36	6	32.798	181	26.39	13	44.724	182	58.21	318	22.928	165	20.95	124
15	11.158	146	58.42	0	32.979	151	26.26	19	44.906	118	61.39	337	23.093	135	22.19	137
25	11.304	111	58.42	5	[29] 33.130	117	26.07	24	[29] 45.024	51	64.76	342	[29] 23.228	102	23.56	144
Dez. 4	[27] 11.415	73	58.37	8	33.247	78	25.83	27	45.075	19	68.18	335	23.330	66	25.00	145
14	11.488	32	58.29	11	33.325	38	25.56	28	45.056	87	71.53	316	23.396	27	26.45	140
24	11.520	10	58.18	12	33.363	4	25.28	27	44.969	154	74.69	288	23.423	13	27.85	131
34	11.510		58.06		33.359		25.01		44.815		77.57		23.410		29.16	
Mittl. Ort	6.551		56.36		28.475		24.92		41.818		66.00		19.124		25.38	
sec δ, tg δ	1.058		+0.345		1.042		+0.294		1.751		−1.437		1.002		−0.061	
a, *a′*	+3.5		+8.1		+3.4		+7.5		+1.3		+7.5		+3.0		+7.4	
b, *b′*	+0.01		−0.92		+0.01		−0.93		−0.04		−0.93		0.00		−0.93	

Scheinbare Sternörter 1940

Tag	172) 53 Eridani				174) τ Tauri				173) Grb 848 Caml				175) 4 Camelop.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$4^h\ 35^m$		$-14°\ 25'$		$4^h\ 38^m$		$+22°\ 50'$		$4^h\ 40^m$		$+75°\ 49'$		$4^h\ 42^m$		$+56°\ 38'$	
	s		"		s		"		s		"		s		"	
Jan. 0	27.460	48	23.09	173	40.341	25	32.11	5	50.30	26	70.52	258	63.021	70	70.72	179
10	27.412	86	24.82	152	40.316	69	32.16	0	50.04	43	73.10	225	62.951	144	72.51	155
20	27.326	122	26.34	126	40.247	109	32.16	4	49.61	57	75.35	185	62.807	211	74.06	126
30	27.204	153	27.60	97	40.138	144	32.12	10	49.04	68	77.20	137	62.596	267	75.32	90
Febr. 9	27.051	176	28.57	68	39.994	171	32.02	18	48.36	77	78.57	84	62.329	309	76.22	51
19	26.875	190	29.25	38	39.823	188	31.84	25	47.59	82	79.41	28	62.020	336	76.73	10
29	26.685	195	29.63	6	39.635	194	31.59	31	46.77	83	79.69	28	61.684	346	76.83	32
März 10	26.490	191	29.69	24	39.441	190	31.28	38	45.94	80	79.41	82	61.338	336	76.51	71
20	26.299	175	29.45	55	39.251	174	30.90	41	45.14	74	78.59	133	61.002	310	75.80	108
30	26.124	152	28.90	84	39.077	147	30.49	43	44.40	65	77.26	178	60.692	267	74.72	139
Apr. 9	25.972	121	28.06	111	38.930	113	30.06	41	43.75	52	75.48	215	60.425	211	73.33	165
19	25.851	83	26.95	138	38.817	72	29.65	37	43.23	39	73.33	243	60.214	145	71.68	182
29	25.768	41	25.57	163	38.745	26	29.28	29	42.84	22	70.90	263	60.069	71	69.86	194
Mai 9	25.727	3	23.94	184	38.719	23	28.99	19	42.62	6	68.27	272	59.998	7	67.92	198
19	25.730	49	22.10	200	38.742	71	28.80	7	42.56	11	65.55	273	60.005	85	65.94	194
29	25.779	93	20.10	214	38.813	118	28.73	6	42.67	28	62.82	266	60.090	161	64.00	184
Juni 8	25.872	134	17.96	221	38.931	162	28.79	20	42.95	43	60.16	250	60.251	232	62.16	169
18	26.006	172	15.75	224	39.093	200	28.99	34	43.38	57	57.66	227	60.483	297	60.47	149
28	26.178	205	13.51	219	39.293	234	29.33	46	43.95	70	55.39	199	60.780	353	58.98	125
Juli 8	26.383	232	11.32	209	39.527	262	29.79	56	44.65	81	53.40	166	61.133	401	57.73	99
18	26.615	254	9.23	192	39.789	283	30.35	65	45.46	90	51.74	130	61.534	438	56.74	70
28	26.869	270	7.31	170	40.072	298	31.00	70	46.36	97	50.44	90	61.972	467	56.04	41
Aug. 7	27.139	280	5.61	140	40.370	307	31.70	73	47.33	103	49.54	49	62.439	486	55.63	11
17	27.419	285	4.21	106	40.677	311	32.43	72	48.36	105	49.05	8	62.925	497	55.52	18
27	27.704	284	3.15	69	40.988	309	33.15	70	49.41	106	48.97	34	63.422	499	55.70	46
Sept. 6	27.988	279	2.46	28	41.297	304	33.85	64	50.47	105	49.31	76	63.921	493	56.16	74
16	28.267	268	2.18	14	41.601	295	34.49	58	51.52	103	50.07	115	64.414	480	56.90	99
26	28.535	255	2.32	55	41.896	281	35.07	50	52.55	98	51.22	153	64.894	461	57.89	123
Okt. 6	28.790	237	2.87	94	42.177	266	35.57	42	53.53	92	52.75	189	65.355	434	59.12	145
16	29.027	216	3.81	129	42.443	246	35.99	34	54.45	84	54.64	220	65.789	402	60.57	165
26	29.243	191	5.10	158	42.689	223	36.33	27	55.29	74	56.84	249	66.191	360	62.22	183
Nov. 5	29.434	163	6.68	181	42.912	196	36.60	22	56.03	61	59.33	272	66.551	313	64.05	196
15	29.597	131	8.49	197	43.108	164	36.82	18	56.64	49	62.05	288	66.864	257	66.01	206
25	29.728	96	10.46	203	43.272	129	37.00	15	57.13	33	64.93	298	² 67.121	194	68.07	212
Dez. 4	³⁰ 29.824	58	12.49	204	³⁰ 43.401	89	37.15	13	¹ 57.46	17	67.91	300	67.315	125	70.19	213
14	29.882	18	14.53	197	43.490	47	37.28	11	57.63	0	70.91	292	67.440	50	72.32	205
24	29.900	23	16.50	182	43.537	2	37.39	9	57.63	17	73.83	275	67.490	26	74.37	193
34	29.877		18.32		43.539		37.48		57.46		76.58		67.464		76.30	
Mittl. Ort	25.859		12.13		38.392		36.74		43.34		68.73		59.746		70.84	
sec δ, tg δ	1.033		−0.257		1.085		+0.421		4.087		+3.962		1.819		+1.520	
a, *a'*	+2.8		+7.2		+3.6		+7.0		+8.1		+6.8		+5.0		+6.6	
b, *b'*	−0.01		−0.93		+0.01		−0.94		+0.09		−0.94		+0.03		−0.94	

Tag	178) α Camelop. AR.	Δ	Dekl.	Δ	180) π^5 Orionis AR.	Δ	Dekl.	Δ	181) ι Aurigae AR.	Δ	Dekl.	Δ	183) ε Aurigae AR.	Δ	Dekl.	Δ
1940	$4^h\ 48^m$		$+66°\ 14'$		$4^h\ 51^m$		$+2°\ 20'$		$4^h\ 53^m$		$+33°\ 4'$		$4^h\ 57^m$		$+43°\ 43'$	
Jan. 0	$8.^s54$	11	$37.''54$	224	$9.^s134$	19	$29.''69$	103	$7.^s109$	15	$18.''74$	62	$42.^s034$	20	$68.''90$	120
10	8.43	21	39.78	198	9.115	60	28.66	92	7.094	66	19.36	52	42.014	79	70.10	106
20	8.22	31	41.76	163	9.055	98	27.74	79	7.028	112	19.88	42	41.935	133	71.16	87
30	7.91	38	43.39	121	8.957	132	26.95	66	6.916	153	20.30	27	41.802	181	72.03	64
Febr. 9	7.53	44	44.60	77	8.825	157	26.29	51	6.763	185	20.57	10	41.621	218	72.67	38
19	7.09	47	45.37	27	8.668	175	25.78	36	6.578	207	20.67	6	41.403	243	73.05	10
29	6.62	49	45.64	22	8.493	184	25.42	22	6.371	216	20.61	25	41.160	255	73.15	19
März 10	6.13	47	45.42	70	8.309	181	25.20	6	6.155	214	20.36	42	40.905	253	72.96	47
20	5.66	45	44.72	114	8.128	169	25.14	10	5.941	199	19.94	57	40.652	236	72.49	73
30	5.21	38	43.58	154	7.959	147	25.24	27	5.742	172	19.37	68	40.416	207	71.76	94
Apr. 9	4.83	31	42.04	187	7.812	118	25.51	43	5.570	136	18.69	77	40.209	166	70.82	112
19	4.52	23	40.17	211	7.694	81	25.94	60	5.434	93	17.92	80	40.043	116	69.70	124
29	4.29	13	38.06	228	7.613	40	26.54	77	5.341	43	17.12	81	39.927	60	68.46	132
Mai 9	4.16	2	35.78	237	7.573	3	27.31	94	5.298	8	16.31	77	39.867	1	67.14	132
19	4.14	8	33.41	237	7.576	47	28.25	109	5.306	62	15.54	68	39.866	59	65.82	128
29	4.22	18	31.04	229	7.623	90	29.34	123	5.368	113	14.86	58	39.925	119	64.54	120
Juni 8	4.40	28	28.75	216	7.713	131	30.57	133	5.481	161	14.28	45	40.044	174	63.34	107
18	4.68	37	26.59	195	7.844	168	31.90	141	5.642	204	13.83	31	40.218	224	62.27	92
28	5.05	44	24.64	170	8.012	201	33.31	144	5.846	242	13.52	16	40.442	269	61.35	75
Juli 8	5.49	51	22.94	141	8.213	227	34.75	143	6.088	274	13.36	1	40.711	306	60.60	55
18	6.00	57	21.53	108	8.440	250	36.18	137	6.362	300	13.35	13	41.017	337	60.05	35
28	6.57	61	20.45	75	8.690	266	37.55	127	6.662	318	13.48	25	41.354	360	59.70	15
Aug. 7	7.18	64	19.70	40	8.956	276	38.82	112	6.980	330	13.73	37	41.714	375	59.55	4
17	7.82	66	19.30	4	9.232	281	39.94	93	7.310	338	14.10	45	42.089	385	59.59	21
27	8.48	66	19.26	32	9.513	283	40.87	70	7.648	339	14.55	53	42.474	388	59.80	39
Sept. 6	9.14	66	19.58	66	9.796	279	41.57	44	7.987	336	15.08	57	42.862	386	60.19	54
16	9.80	65	20.24	100	10.075	272	42.01	17	8.323	328	15.65	61	43.248	379	60.73	69
26	10.45	62	21.24	132	10.347	262	42.18	10	8.651	316	16.26	64	43.627	367	61.42	82
Okt. 6	11.07	59	22.56	161	10.609	248	42.08	36	8.967	302	16.90	66	43.994	349	62.24	94
16	11.66	54	24.17	189	10.857	231	41.72	61	9.269	282	17.56	68	44.343	328	63.18	105
26	12.20	48	26.06	213	11.088	209	41.11	81	9.551	258	18.24	70	44.671	300	64.23	115
Nov. 5	12.68	42	28.19	232	11.297	185	40.30	98	9.809	230	18.94	71	44.971	267	65.38	124
15	13.10	34	30.51	248	11.482	157	39.32	108	10.039	196	19.65	72	45.238	227	66.62	130
25	13.44	25	32.99	256	11.639	123	38.24	115	10.235	157	20.37	74	45.465	181	67.92	136
Dez. 4*)	^{3}13.69	15	35.55	259	^{4}11.762	87	37.09	117	^{4}10.392	113	21.11	74	45.646	130	69.28	137
14	13.84	5	38.14	253	11.849	48	35.92	113	10.505	65	21.85	71	^{5}45.776	75	70.65	135
24	13.89	5	40.67	240	11.897	6	34.79	106	10.570	15	22.56	68	45.851	15	72.00	129
34	13.84		43.07		11.903		33.73		10.585		23.24		45.866		73.29	
Mittl. Ort	4.16		37.20		7.406		38.22		4.912		22.70		39.483		71.80	
sec δ, tg δ	2.482		+2.272		1.001		+0.041		1.193		+0.651		1.384		+0.957	
a, a'	+6.0		+6.2		+3.1		+5.9		+3.9		+5.8		+4.3		+5.4	
b, b'	+0.05		−0.95		0.00		−0.96		+0.01		−0.96		+0.02		−0.96	

*) Bei Stern 183) lies Dez. 5.

Scheinbare Sternörter 1940

Tag	182) β Camelop.				184) ι Tauri				185) η Aurigae				186) ε Leporis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	4h 58m		+60° 21′		4h 59m		+21° 30′		5h 2m		+41° 9′		5h 2m		−22° 26′	
	s		″		s		″		s		″		s		″	
Jan. 0	7.87	6	24.51	203	32.324	6	15.67	3	20.593	12	15.91	107	56.877	37	73.39	218
10	7.81	15	26.54	180	32.318	51	15.64	2	20.581	69	16.98	96	56.840	80	75.57	193
20	7.66	22	28.34	152	32.267	95	15.62	4	20.512	121	17.94	79	56.760	121	77.50	163
30	7.44	28	29.86	116	32.172	132	15.58	8	20.391	168	18.73	59	56.639	156	79.13	129
Febr. 9	7.16	34	31.02	75	32.040	162	15.50	12	20.223	205	19.32	35	56.483	183	80.42	93
19	6.82	38	31.77	32	31.878	183	15.38	17	20.018	231	19.67	11	56.300	203	81.35	56
29	6.44	39	32.09	12	31.695	194	15.21	22	19.787	244	19.78	16	56.097	212	81.91	19
März 10	6.05	38	31.97	56	31.501	193	14.99	27	19.543	243	19.62	41	55.885	212	82.10	19
20	5.67	36	31.41	96	31.308	181	14.72	30	19.300	227	19.21	65	55.673	201	81.91	56
30	5.31	32	30.45	132	31.127	158	14.42	32	19.073	200	18.56	85	55.472	180	81.35	91
Apr. 9	4.99	26	29.13	163	30.969	126	14.10	31	18.873	162	17.71	100	55.292	152	80.44	124
19	4.73	19	27.50	186	30.843	88	13.79	27	18.711	115	16.71	112	55.140	116	79.20	156
29	4.54	11	25.64	202	30.755	44	13.52	21	18.596	61	15.59	118	55.024	76	77.64	184
Mai 9	4.43	2	23.62	211	30.711	3	13.31	12	18.535	5	14.41	119	54.948	32	75.80	208
19	4.41	6	21.51	211	30.714	50	13.19	3	18.530	53	13.22	114	54.916	14	73.72	227
29	4.47	14	19.40	206	30.764	96	13.16	9	18.583	110	12.08	107	54.930	60	71.45	242
Juni 8	4.61	22	17.34	193	30.860	141	13.25	20	18.693	164	11.01	95	54.990	103	69.03	251
18	4.83	30	15.41	175	31.001	180	13.45	32	18.857	212	10.06	80	55.093	144	66.52	254
28	5.13	36	13.66	154	31.181	215	13.77	42	19.069	256	9.26	64	55.237	180	63.98	248
Juli 8	5.49	42	12.12	128	31.396	245	14.19	51	19.325	292	8.62	47	55.417	213	61.50	237
18	5.91	46	10.84	101	31.641	268	14.70	57	19.617	322	8.15	29	55.630	239	59.13	218
28	6.37	50	9.83	70	31.909	285	15.27	61	19.939	344	7.86	11	55.869	261	56.95	192
Aug. 7	6.87	53	9.13	40	32.194	298	15.88	61	20.283	360	7.75	5	56.130	276	55.03	159
17	7.40	54	8.73	8	32.492	304	16.49	61	20.643	370	7.80	21	56.406	286	53.44	120
27	7.94	55	8.65	22	32.796	307	17.10	56	21.013	373	8.01	36	56.692	291	52.24	77
Sept. 6	8.49	55	8.87	53	33.103	304	17.66	49	21.386	373	8.37	49	56.983	290	51.47	31
16	9.04	54	9.40	81	33.407	298	18.15	41	21.759	367	8.86	61	57.273	284	51.16	17
26	9.58	52	10.21	110	33.705	289	18.56	33	22.126	354	9.47	71	57.557	275	51.33	66
Okt. 6	10.10	49	11.31	136	33.994	276	18.89	24	22.480	340	10.18	82	57.832	259	51.99	111
16	10.59	46	12.67	160	34.270	259	19.13	15	22.820	319	11.00	91	58.091	240	53.10	153
26	11.05	42	14.27	182	34.529	239	19.28	9	23.139	294	11.91	99	58.331	217	54.63	189
Nov. 5	11.47	37	16.09	200	34.768	213	19.37	5	23.433	263	12.90	107	58.548	189	56.52	217
15	11.84	31	18.09	215	34.981	184	19.42	1	23.696	225	13.97	114	58.737	155	58.69	237
25	12.15	24	20.24	224	35.165	149	19.43	1	23.921	182	15.11	118	58.892	119	61.06	248
Dez. 5	5 12.39	16	22.48	229	6 35.314	111	19.42	1	6 24.103	133	16.29	121	7 59.011	78	63.54	250
14	12.55	7	24.77	225	35.425	67	19.41	0	24.236	80	17.50	119	59.089	35	66.04	244
24	12.62	0	27.02	215	35.492	22	19.41	1	24.316	23	18.69	115	59.124	9	68.48	228
34	12.62		29.17		35.514		19.42		24.339		19.84		59.115		70.76	
Mittl. Ort	4.23		25.65		30.358		21.65		18.135		19.48		55.179		61.29	
sec δ, tg δ	2.022		+1.757		1.075		+0.394		1.328		+0.874		1.082		−0.413	
a, a'	+5.3		+5.4		+3.6		+5.2		+4.2		+5.0		+2.5		+4.9	
b, b'	+0.03		−0.96		+0.01		−0.97		+0.01		−0.97		−0.01		−0.97	

Tag	188) β Eridani				192) μ Aurigae				194) β Orionis				193) α Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$5^h\ 4^m$		$-5°\ 9'$		$5^h\ 9^m$		$+38°\ 24'$		$5^h\ 11^m$		$-8°\ 16'$		$5^h\ 12^m$		$+45°\ 56'$	
	s		"		s		"		s		"		s		"	
Jan. 0	55.597	13	55.02	144	21.462	1	50.87	93	40.891	10	20.76	161	17.806	4	17.35	134
10	55.584	56	56.46	128	21.461	58	51.80	84	40.881	53	22.37	144	17.802	67	18.69	121
20	55.528	95	57.74	110	21.403	109	52.64	71	40.828	94	23.81	123	17.735	126	19.90	104
30	55.433	130	58.84	89	21.294	155	53.35	54	40.734	129	25.04	100	17.609	178	20.94	81
Febr. 9	55.303	157	59.73	68	21.139	193	53.89	35	40.605	158	26.04	75	17.431	219	21.75	55
19	55.146	177	60.41	45	20.946	218	54.24	12	40.447	178	26.79	50	17.212	250	22.30	25
29	54.969	188	60.86	22	20.728	233	54.36	11	40.269	191	27.29	25	16.962	266	22.55	5
März 10	54.781	187	61.08	0	20.495	234	54.25	34	40.078	190	27.54	1	16.696	266	22.50	35
20	54.594	178	61.08	23	20.261	220	53.91	55	39.888	182	27.53	27	16.430	253	22.15	64
30	54.416	158	60.85	46	20.041	196	53.36	73	39.706	164	27.26	52	16.177	226	21.51	90
Apr. 9	54.258	130	60.39	67	19.845	160	52.63	87	39.542	136	26.74	76	15.951	186	20.61	110
19	54.128	96	59.72	89	19.685	116	51.76	97	39.406	103	25.98	100	15.765	137	19.51	127
29	54.032	57	58.83	110	19.569	65	50.79	103	39.303	65	24.98	121	15.628	80	18.24	137
Mai 9	53.975	14	57.73	129	19.504	11	49.76	103	39.238	23	23.77	142	15.548	21	16.87	142
19	53.961	29	56.44	146	19.493	45	48.73	100	39.215	21	22.35	160	15.527	41	15.45	142
29	53.990	72	54.98	159	19.538	99	47.73	93	39.236	64	20.75	173	15.568	102	14.03	135
Juni 8	54.062	113	53.39	169	19.637	151	46.80	82	39.300	105	19.02	184	15.670	160	12.68	126
18	54.175	151	51.70	175	19.788	198	45.98	69	39.405	143	17.18	189	15.830	214	11.42	113
28	54.326	185	49.95	176	19.986	240	45.29	54	39.548	177	15.29	190	16.044	261	10.29	96
Juli 8	54.511	213	48.19	172	20.226	277	44.75	39	39.725	207	13.39	184	16.305	302	9.33	79
18	54.724	237	46.47	163	20.503	305	44.36	23	39.932	231	11.55	173	16.607	336	8.54	59
28	54.961	255	44.84	146	20.808	328	44.13	8	40.163	251	9.82	156	16.943	362	7.95	39
Aug. 7	55.216	268	43.38	126	21.136	344	44.05	6	40.414	265	8.26	133	17.305	381	7.56	20
17	55.484	276	42.12	101	21.480	355	44.11	19	40.679	275	6.93	105	17.686	395	7.36	0
27	55.760	279	41.11	71	21.835	359	44.30	31	40.954	279	5.88	74	18.081	401	7.36	18
Sept. 6	56.039	279	40.40	39	22.194	360	44.61	41	41.233	279	5.14	38	18.482	402	7.54	35
16	56.318	273	40.01	5	22.554	354	45.02	51	41.512	276	4.76	2	18.884	397	7.89	53
26	56.591	265	39.96	29	22.908	346	45.53	59	41.788	267	4.74	35	19.281	388	8.42	68
Okt. 6	56.856	252	40.25	63	23.254	331	46.12	67	42.055	256	5.09	71	19.669	373	9.10	82
16	57.108	237	40.88	92	23.585	314	46.79	74	42.311	241	5.80	104	20.042	352	9.92	97
26	57.345	217	41.80	119	23.899	290	47.53	82	42.552	221	6.84	132	20.394	326	10.89	111
Nov. 5	57.562	192	42.99	139	24.189	261	48.35	88	42.773	197	8.16	156	20.720	293	12.00	122
15	57.754	164	44.38	154	24.450	226	49.23	94	42.970	169	9.72	171	21.013	253	13.22	132
25	57.918	131	45.92	162	24.676	185	50.17	99	43.139	136	11.43	180	21.266	208	14.54	140
Dez. 5	7 58.049	95	47.54	163	8 24.861	138	51.16	102	9 43.275	98	13.23	183	9 21.474	153	15.94	145
14	58.144	54	49.17	159	24.999	87	52.18	102	43.373	59	15.06	178	21.627	95	17.39	145
24	58.198	12	50.76	151	25.086	32	53.20	99	43.432	16	16.84	167	21.722	34	18.84	142
34	58.210		52.27		25.118		54.19		43.448		18.51		21.756		20.26	
Mittl. Ort	53.879		45.11		19.091		55.29		39.167		10.37		15.148		21.17	
sec δ, tg δ	1.004		−0.090		1.276		+0.793		1.010		−0.145		1.438		+1.033	
a, a'	+3.0		+4.8		+4.1		+4.4		+2.9		+4.2		+4.4		+4.1	
b, b'	0.00		−0.97		+0.01		−0.98		0.00		−0.98		+0.01		−0.98	

Scheinbare Sternörter 1940

Tag	191) 19 H. Camelop.				196) ϑ Doradus				201) γ Orionis				202) β Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$5^h\ 12^m$		$+79°\ 9'$		$5^h\ 13^m$		$-67°\ 14'$		$5^h\ 21^m$		$+6°\ 17'$		$5^h\ 22^m$		$+28°\ 33'$	
	s		"		s		"		s		"		s		"	
Jan. 0	46.72	23	60.01	284	50.83	27	85.48	310	56.478	10	39.93	89	31.913	16	24.67	38
10	46.49	45	62.85	260	50.56	36	88.58	273	56.488	35	39.04	79	31.929	35	25.05	36
20	46.04	65	65.45	225	50.20	44	91.31	228	56.453	77	38.25	68	31.894	83	25.41	32
30	45.39	82	67.70	181	49.76	50	93.59	178	56.376	115	37.57	56	31.811	127	25.73	25
Febr. 9	44.57	95	69.51	131	49.26	56	95.37	125	56.261	146	37.01	45	31.684	163	25.98	16
19	43.62	105	70.82	76	48.70	60	96.62	70	56.115	169	36.56	33	31.521	189	26.14	4
29	42.57	110	71.58	18	48.10	60	97.32	14	55.946	183	36.23	21	31.332	204	26.18	8
März 10	41.47	109	71.76	39	47.50	61	97.46	42	55.763	186	36.02	11	31.128	208	26.10	20
20	40.38	104	71.37	94	46.89	59	97.04	95	55.577	178	35.91	2	30.920	199	25.90	32
30	39.34	94	70.43	145	46.30	55	96.09	145	55.399	161	35.93	13	30.721	180	25.58	41
Apr. 9	38.40	81	68.98	189	45.75	49	94.64	191	55.238	135	36.06	27	30.541	149	25.17	48
19	37.59	64	67.09	226	45.26	43	92.73	233	55.103	102	36.33	39	30.392	111	24.69	52
29	36.95	45	64.83	254	44.83	35	90.40	270	55.001	63	36.72	54	30.281	67	24.17	53
Mai 9	36.50	25	62.29	272	44.48	27	87.70	300	54.938	21	37.26	67	30.214	20	23.64	50
19	36.25	3	59.57	282	44.21	17	84.70	323	54.917	22	37.93	80	30.194	29	23.14	46
29	36.22	17	56.75	282	44.04	7	81.47	339	54.939	65	38.73	92	30.223	79	22.68	38
Juni 8	36.39	39	53.93	275	43.97	3	78.08	345	55.004	107	39.65	102	30.302	125	22.30	29
18	36.78	58	51.18	259	44.00	12	74.63	343	55.111	144	40.67	110	30.427	167	22.01	18
28	37.36	76	48.59	237	44.12	22	71.20	332	55.255	179	41.77	115	30.594	206	21.83	9
Juli 8	38.12	92	46.22	210	44.34	30	67.88	311	55.434	208	42.92	115	30.800	240	21.74	2
18	39.04	106	44.12	177	44.64	39	64.77	281	55.642	233	44.07	112	31.040	266	21.76	11
28	40.10	117	42.35	142	45.03	46	61.96	242	55.875	252	45.19	105	31.306	288	21.87	18
Aug. 7	41.27	126	40.93	102	45.49	51	59.54	195	56.127	267	46.24	94	31.594	305	22.05	24
17	42.53	132	39.91	60	46.00	55	57.59	141	56.394	276	47.18	78	31.899	315	22.29	28
27	43.85	137	39.31	19	46.55	59	56.18	81	56.670	282	47.96	59	32.214	321	22.57	30
Sept. 6	45.22	138	39.12	24	47.14	59	55.37	18	56.952	284	48.55	38	32.535	323	22.87	31
16	46.60	136	39.36	67	47.73	59	55.19	47	57.236	281	48.93	14	32.858	321	23.18	31
26	47.96	134	40.03	109	48.32	57	55.66	111	57.517	275	49.07	9	33.179	314	23.49	29
Okt. 6	49.30	127	41.12	149	48.89	53	56.77	172	57.792	266	48.98	33	33.493	305	23.78	27
16	50.57	118	42.61	187	49.42	47	58.49	229	58.058	253	48.65	53	33.798	291	24.05	27
26	51.75	107	44.48	221	49.89	40	60.78	276	58.311	236	48.12	72	34.089	271	24.32	27
Nov. 5	52.82	92	46.69	252	50.29	32	63.54	314	58.547	214	47.40	86	34.360	248	24.59	28
15	53.74	76	49.21	277	50.61	22	66.68	341	58.761	188	46.54	96	34.608	218	24.87	30
25	54.50	57	51.98	295	50.83	12	70.09	355	58.949	156	45.58	101	34.826	183	25.17	33
Dez. 5	55.07	36	54.93	306	50.95	1	73.64	357	59.105	120	44.57	101	35.009	141	25.50	37
14	9 55.43	14	57.99	306	9 50.96	9	77.21	347	11 59.225	80	43.56	99	12 35.150	96	25.87	39
24	55.57	9	61.05	299	50.87	20	80.68	326	59.305	36	42.57	92	35.246	47	26.26	44
34	55.48		64.04		50.67		83.94		59.341		41.65		35.293		26.70	
Mittl. Ort	37.73		61.31		47.81		70.39		54.657		48.81		29.787		31.08	
sec δ, tg δ	5.321		+5.226		2.586		−2.385		1.006		+0.110		1.139		+0.544	
a, *a'*	+9.9		+4.1		0.0		+4.0		+3.2		+3.3		+3.8		+3.3	
b, *b'*	+0.07		−0.98		−0.03		−0.98		0.00		−0.99		+0.01		−0.99	

Tag	203) 17 Camelop. AR.		203) Dekl.		206) δ Orionis AR.		206) Dekl.		207) α Leporis AR.		207) Dekl.		205) Grb 966 Caml AR.		205) Dekl.	
1940	5h 24m		+63° 0′		5h 28m		−0° 20′		5h 30m		−17° 51′		5h 31m		+75° 0′	
Jan. 0	33.67 s	2	68.25″	224	58.160 s	11	40.90″	127	6.713 s	6	61.42″	213	47.88 s	7	25.74″	276
10	33.65	11	70.49	207	58.171	33	42.17	113	6.707	50	63.55	191	47.81	24	28.50	256
20	33.54	21	72.56	181	58.138	75	43.30	98	6.657	94	65.46	166	47.57	40	31.06	228
30	33.33	28	74.37	149	58.063	113	44.28	80	6.563	133	67.12	135	47.17	53	33.34	191
Febr. 9	33.05	35	75.86	110	57.950	146	45.08	62	6.430	164	68.47	103	46.64	64	35.25	145
19	32.70	40	76.96	67	57.804	169	45.70	44	6.266	187	69.50	71	46.00	73	36.70	95
29	32.30	43	77.63	22	57.635	183	46.14	26	6.079	202	70.21	36	45.27	77	37.65	41
März 10	31.87	43	77.85	24	57.452	187	46.40	8	5.877	206	70.57	2	44.50	79	38.06	14
20	31.44	41	77.61	69	57.265	181	46.48	11	5.671	200	70.59	32	43.71	76	37.92	68
30	31.03	37	76.92	109	57.084	165	46.37	28	5.471	184	70.27	65	42.95	70	37.24	118
Apr. 9	30.66	32	75.83	146	56.919	140	46.09	47	5.287	159	69.62	95	42.25	61	36.06	162
19	30.34	26	74.37	175	56.779	109	45.62	64	5.128	127	68.67	125	41.64	50	34.44	200
29	30.08	17	72.62	198	56.670	71	44.98	82	5.001	90	67.42	153	41.14	37	32.44	231
Mai 9	29.91	8	70.64	212	56.599	31	44.16	99	4.911	49	65.89	177	40.77	22	30.13	252
19	29.83	0	68.52	221	56.568	12	43.17	114	4.862	6	64.12	197	40.55	7	27.61	265
29	29.83	10	66.31	221	56.580	54	42.03	127	4.856	38	62.15	214	40.48	8	24.96	269
Juni 8	29.93	19	64.10	215	56.634	95	40.76	137	4.894	80	60.01	224	40.56	24	22.27	266
18	30.12	27	61.95	203	56.729	133	39.39	145	4.974	121	57.77	230	40.80	38	19.61	256
28	30.39	34	59.92	185	56.862	168	37.94	147	5.095	157	55.47	229	41.18	52	17.05	238
Juli 8	30.73	40	58.07	164	57.030	197	36.47	145	5.252	190	53.18	221	41.70	64	14.67	215
18	31.13	47	56.43	139	57.227	223	35.02	139	5.442	217	50.97	206	42.34	74	12.52	187
28	31.60	51	55.04	111	57.450	244	33.63	127	5.659	241	48.91	185	43.08	84	10.65	156
Aug. 7	32.11	55	53.93	81	57.694	259	32.36	112	5.900	260	47.06	158	43.92	90	9.09	120
17	32.66	57	53.12	50	57.953	270	31.24	90	6.160	272	45.48	123	44.82	96	7.89	83
27	33.23	59	52.62	18	58.223	277	30.34	65	6.432	280	44.25	85	45.78	100	7.06	45
Sept. 6	33.82	60	52.44	13	58.500	279	29.69	38	6.712	285	43.40	42	46.78	101	6.61	4
16	34.42	60	52.57	44	58.779	278	29.31	8	6.997	283	42.98	3	47.79	102	6.57	36
26	35.02	58	53.01	76	59.057	274	29.23	22	7.280	279	43.01	48	48.81	100	6.93	75
Okt. 6	35.60	57	53.77	106	59.331	265	29.45	51	7.559	269	43.49	92	49.81	97	7.68	115
16	36.17	53	54.83	135	59.596	253	29.96	78	7.828	254	44.41	132	50.78	91	8.83	152
26	36.70	49	56.18	162	59.849	236	30.74	102	8.082	236	45.73	168	51.69	84	10.35	188
Nov. 5	37.19	45	57.80	186	60.085	214	31.76	121	8.318	212	47.41	197	52.53	75	12.23	219
15	37.64	38	59.66	206	60.299	189	32.97	133	8.530	182	49.38	219	53.28	64	14.42	246
25	38.02	30	61.72	223	60.488	158	34.30	141	8.712	149	51.57	232	53.92	51	16.88	268
Dez. 5	38.32	23	63.95	233	60.646	121	35.71	143	8.861	110	53.89	236	54.43	35	19.56	283
14	[12] 38.55	13	66.28	237	[13] 60.767	82	37.14	140	[14] 8.971	67	56.25	232	[14] 54.78	20	22.39	289
24	38.68	4	68.65	233	60.849	38	38.54	131	9.038	22	58.57	221	54.98	3	25.28	285
34	38.72		70.98		60.887		39.85		9.060		60.78		55.01		28.13	
Mittl. Ort	29.74		71.69		56.369		31.15		4.945		50.00		41.27		29.19	
sec δ, tg δ	2.204		+1.964		1.000		−0.006		1.051		−0.322		3.866		+3.734	
a, *a′*	+5.7		+3.1		+3.1		+2.7		+2.6		+2.6		+8.0		+2.5	
b, *b′*	+0.02		−0.99		0.00		−0.99		0.00		−0.99		+0.03		−0.99	

Scheinbare Sternörter 1940

Tag	209) ι Orionis AR.		209) ι Orionis Dekl.		212) β Doradus AR.		212) β Doradus Dekl.		210) ε Orionis AR.		210) ε Orionis Dekl.		211) ζ Tauri AR.		211) ζ Tauri Dekl.	
1940	$5^h\ 32^m$		−5° 56′		$5^h\ 33^m$		−62° 31′		$5^h\ 33^m$		−1° 14′		$5^h\ 34^m$		+21° 6′	
	s		″		s		″		s		″		s		″	
Jan. 0	31.562	11	62.25	157	8.87	17	57.51	325	11.828	14	29.24	133	5.406	27	19.95	6
10	31.573	35	63.82	141	8.70	25	60.76	293	11.842	30	30.57	119	5.433	21	19.89	2
20	31.538	77	65.23	122	8.45	32	63.69	252	11.812	73	31.76	102	5.412	69	19.87	0
30	31.461	115	66.45	100	8.13	39	66.21	205	11.739	111	32.78	84	5.343	112	19.87	0
Febr. 9	31.346	148	67.45	77	7.74	45	68.26	154	11.628	144	33.62	66	5.231	147	19.87	1
19	31.198	172	68.22	55	7.29	48	69.80	100	11.484	168	34.28	46	5.084	174	19.86	4
29	31.026	186	68.77	30	6.81	49	70.80	45	11.316	183	34.74	27	4.910	191	19.82	8
März 10	30.840	191	69.07	7	6.32	51	71.25	10	11.133	188	35.01	8	4.719	196	19.74	12
20	30.649	185	69.14	17	5.81	49	71.15	63	10.945	182	35.09	11	4.523	191	19.62	16
30	30.464	169	68.97	40	5.32	46	70.52	116	10.763	167	34.98	29	4.332	173	19.46	19
Apr. 9	30.295	146	68.57	62	4.86	43	69.36	164	10.596	143	34.69	49	4.159	147	19.27	19
19	30.149	115	67.95	84	4.43	37	67.72	208	10.453	112	34.20	67	4.012	113	19.08	19
29	30.034	78	67.11	105	4.06	31	65.64	248	10.341	75	33.53	85	3.899	73	18.89	15
Mai 9	29.956	38	66.06	124	3.75	24	63.16	281	10.266	34	32.68	102	3.826	28	18.74	11
19	29.918	5	64.82	142	3.51	16	60.35	308	10.232	7	31.66	118	3.798	17	18.63	4
29	29.923	47	63.40	155	3.35	8	57.27	328	10.239	50	30.48	130	3.815	62	18.59	4
Juni 8	29.970	87	61.85	166	3.27	0	53.99	339	10.289	90	29.18	141	3.877	107	18.63	13
18	30.057	126	60.19	173	3.27	8	50.60	342	10.379	129	27.77	148	3.984	148	18.76	21
28	30.183	161	58.46	174	3.35	17	47.18	335	10.508	163	26.29	150	4.132	184	18.97	28
Juli 8	30.344	191	56.72	171	3.52	24	43.83	318	10.671	194	24.79	149	4.316	216	19.25	35
18	30.535	218	55.01	161	3.76	31	40.65	293	10.865	219	23.30	142	4.532	243	19.60	39
28	30.753	239	53.40	147	4.07	37	37.72	258	11.084	241	21.88	130	4.775	264	19.99	41
Aug. 7	30.992	255	51.93	127	4.44	42	35.14	215	11.325	256	20.58	113	5.039	282	20.40	41
17	31.247	268	50.66	101	4.86	46	32.99	163	11.581	268	19.45	91	5.321	293	20.81	38
27	31.515	275	49.65	72	5.32	49	31.36	105	11.849	276	18.54	66	5.614	300	21.19	33
Sept. 6	31.790	278	48.93	40	5.81	51	30.31	44	12.125	279	17.88	38	5.914	304	21.52	26
16	32.068	278	48.53	5	6.32	51	29.87	22	12.404	278	17.50	7	6.218	304	21.78	18
26	32.346	273	48.48	31	6.83	50	30.09	87	12.682	275	17.43	24	6.522	299	21.96	9
Okt. 6	32.619	266	48.79	65	7.33	47	30.96	149	12.957	266	17.67	54	6.821	292	22.05	0
16	32.885	253	49.44	97	7.80	43	32.45	208	13.223	255	18.21	82	7.113	280	22.05	8
26	33.138	237	50.41	125	8.23	38	34.53	259	13.478	238	19.03	106	7.393	264	21.97	13
Nov. 5	33.375	215	51.66	147	8.61	32	37.12	302	13.716	218	20.09	126	7.657	243	21.84	16
15	33.590	188	53.13	163	8.93	23	40.14	333	13.934	192	21.35	139	7.900	216	21.68	18
25	33.778	157	54.76	172	9.16	16	43.47	353	14.126	161	22.74	147	8.116	184	21.50	17
Dez. 5	33.935	121	56.48	176	9.32	8	47.00	360	14.287	124	24.21	150	8.300	146	21.33	14
14*)	34.056	80	58.24	172	9.40	2	50.60	355	14.411	85	25.71	146	8.446	102	21.19	10
24	34.136	37	59.96	163	9.38	12	54.15	338	14.496	42	27.17	137	8.548	56	21.09	5
34	34.173		61.59		9.26		57.53		14.538		28.54		8.604		21.04	
Mittl. Ort	29.787		51.90		6.07		43.63		10.035		19.32		3.405		27.75	
sec δ, tg δ	1.005		−0.104		2.168		−1.923		1.000		−0.022		1.072		+0.386	
a, a′	+2.9		+2.4		+0.5		+2.3		+3.0		+2.3		+3.6		+2.3	
b, b′	0.00		−0.99		−0.02		−0.99		0.00		−0.99		0.00		−0.99	

*) Bei Stern 211) lies Dez. 15.

Tag		215) α Columbae AR.		215) α Columbae Dekl.		216) ο Aurigae AR.		216) ο Aurigae Dekl.	
1940		$5^h\ 37^m$		$-34°\ 6'$		$5^h\ 41^m$		$+49°\ 47'$	
		s		″		s		″	
Jan.	0	30.381	26	30.33	278	17.793	31	62.52	161
	10	30.355	78	33.11	252	17.824	39	64.13	152
	20	30.277	126	35.63	219	17.785	106	65.65	138
	30	30.151	168	37.82	180	17.679	168	67.03	117
Febr.	9	29.983	203	39.62	138	17.511	220	68.20	91
	19	29.780	229	41.00	94	17.291	259	69.11	61
	29	29.551	246	41.94	49	17.032	283	69.72	28
März	10	29.305	251	42.43	3	16.749	292	70.00	6
	20	29.054	245	42.46	41	16.457	285	69.94	39
	30	28.809	229	42.05	85	16.172	264	69.55	70
Apr.	9	28.580	203	41.20	126	15.908	227	68.85	98
	19	28.377	171	39.94	164	15.681	180	67.87	121
	29	28.206	131	38.30	198	15.501	125	66.66	138
Mai	9	28.075	86	36.32	229	15.376	64	65.28	150
	19	27.989	40	34.03	253	15.312	0	63.78	157
	29	27.949	9	31.50	273	15.312	64	62.21	158
Juni	8	27.958	57	28.77	285	15.376	127	60.63	153
	18	28.015	102	25.92	290	15.503	187	59.10	146
	28	28.117	146	23.02	287	15.690	239	57.64	133
Juli	8	28.263	185	20.15	275	15.929	287	56.31	118
	18	28.448	220	17.40	256	16.216	328	55.13	101
	28	28.668	250	14.84	229	16.544	362	54.12	82
Aug.	7	28.918	274	12.55	192	16.906	389	53.30	63
	17	29.192	292	10.63	150	17.295	408	52.67	42
	27	29.484	305	9.13	102	17.703	421	52.25	22
Sept.	6	29.789	312	8.11	48	18.124	430	52.03	1
	16	30.101	314	7.63	7	18.554	431	52.02	18
	26	30.415	308	7.70	63	18.985	427	52.20	39
Okt.	6	30.723	298	8.33	117	19.412	418	52.59	58
	16	31.021	280	9.50	169	19.830	401	53.17	78
	26	31.301	258	11.19	214	20.231	377	53.95	97
Nov.	5	31.559	228	13.33	251	20.608	347	54.92	115
	15	31.787	193	15.84	279	20.955	307	56.07	132
	25	31.980	152	18.63	298	21.262	259	57.39	146
Dez.	5	32.132	106	21.61	304	21.521	204	58.85	157
	15	32.238	57	24.65	301	21.725	142	60.42	163
	24	[15] 32.295	5	27.66	289	[16] 21.867	73	62.05	166
	34	32.300		30.55		21.940		63.71	
Mittl. Ort		28.483		17.86		14.948		68.40	
sec δ, tg δ		1.208		−0.677		1.549		+1.183	
a, a′		+2.2		+2.0		+4.6		+1.6	
b, b′		0.00		−1.00		+0.01		−1.00	

Tag		219) ζ Leporis AR.		219) ζ Leporis Dekl.		220) κ Orionis AR.		220) κ Orionis Dekl.	
1940		$5^h\ 44^m$		$-14°\ 50'$		$5^h\ 44^m$		$-9°\ 41'$	
		s		″		s		″	
Jan.	0	15.913	12	45.95	206	56.363	18	33.10	181
	10	15.925	35	48.01	185	56.381	28	34.91	163
	20	15.890	78	49.86	162	56.353	72	36.54	142
	30	15.812	119	51.48	134	56.281	112	37.96	117
Febr.	9	15.693	153	52.82	105	56.169	145	39.13	92
	19	15.540	179	53.87	74	56.024	172	40.05	65
	29	15.361	194	54.61	42	55.852	188	40.70	38
März	10	15.167	201	55.03	10	55.664	194	41.08	10
	20	14.966	198	55.13	20	55.470	191	41.18	16
	30	14.768	184	54.93	51	55.279	177	41.02	42
Apr.	9	14.584	161	54.42	81	55.102	155	40.60	68
	19	14.423	132	53.61	109	54.947	126	39.92	93
	29	14.291	96	52.52	134	54.821	90	38.99	115
Mai	9	14.195	56	51.18	158	54.731	51	37.84	137
	19	14.139	15	49.60	179	54.680	10	36.47	155
	29	14.124	28	47.81	195	54.670	32	34.92	170
Juni	8	14.152	70	45.86	206	54.702	74	33.22	181
	18	14.222	109	43.80	213	54.776	112	31.41	188
	28	14.331	145	41.67	213	54.888	148	29.53	190
Juli	8	14.476	179	39.54	208	55.036	179	27.63	185
	18	14.655	206	37.46	196	55.215	207	25.78	176
	28	14.861	231	35.50	177	55.422	230	24.02	159
Aug.	7	15.092	250	33.73	152	55.652	249	22.43	137
	17	15.342	264	32.21	121	55.901	263	21.06	110
	27	15.606	275	31.00	85	56.164	272	19.96	77
Sept.	6	15.881	280	30.15	45	56.436	278	19.19	42
	16	16.161	282	29.70	2	56.714	279	18.77	4
	26	16.443	280	29.68	41	56.993	277	18.73	34
Okt.	6	16.723	272	30.09	82	57.270	271	19.07	73
	16	16.995	261	30.91	121	57.541	260	19.80	108
	26	17.256	245	32.12	157	57.801	244	20.88	139
Nov.	5	17.501	222	33.69	185	58.045	223	22.27	164
	15	17.723	196	35.54	206	58.268	198	23.91	183
	25	17.919	164	37.60	220	58.466	167	25.74	195
Dez.	5	18.083	126	39.80	225	58.633	130	27.69	199
	15	18.209	84	42.05	222	58.763	89	29.68	196
	24	[17] 18.293	39	44.27	212	[17] 58.852	45	31.64	186
	34	18.332		46.39		58.897		33.50	
Mittl. Ort		14.119		34.87		54.570		22.38	
sec δ, tg δ		1.035		−0.265		1.014		−0.171	
a, a′		+2.7		+1.4		+2.8		+1.3	
b, b′		0.00		−1.00		0.00		−1.00	

Scheinbare Sternörter 1940

Tag	224) α Orionis AR.		224) α Orionis Dekl.		225) δ Aurigae AR.		225) δ Aurigae Dekl.		227) β Aurigae AR.		227) β Aurigae Dekl.		228) ϑ Aurigae AR.		228) ϑ Aurigae Dekl.	
1940	$5^h\ 51^m$		$+7°\ 23'$		$5^h\ 54^m$		$+54°\ 16'$		$5^h\ 55^m$		$+44°\ 56'$		$5^h\ 55^m$		$+37°\ 12'$	
	s		"		s		"		s		"		s		"	
Jan. 0	57.203	37	41.44	89	38.212	49	50.31	186	10.177	52	29.39	135	40.047	53	29.49	89
10	57.240	9	40.55	78	38.261	29	52.17	178	10.229	13	30.74	131	40.100	6	30.38	89
20	57.231	54	39.77	67	38.232	106	53.95	164	10.216	77	32.05	121	40.094	63	31.27	84
30	57.177	96	39.10	53	38.126	175	55.59	143	10.139	136	33.26	107	40.031	115	32.11	75
Febr. 9	57.081	133	38.57	42	37.951	235	57.02	115	10.003	186	34.33	87	39.916	161	32.86	61
19	56.948	160	38.15	31	37.716	281	58.17	83	9.817	225	35.20	63	39.755	197	33.47	44
29	56.788	178	37.84	19	37.435	312	59.00	47	9.592	252	35.83	35	39.558	221	33.91	25
März 10	56.610	187	37.65	9	37.123	325	59.47	10	9.340	264	36.18	7	39.337	231	34.16	4
20	56.423	183	37.56	1	36.798	322	59.57	28	9.076	260	36.25	22	39.106	228	34.20	18
30	56.240	171	37.57	12	36.476	301	59.29	64	8.816	243	36.03	49	38.878	214	34.02	37
Apr. 9	56.069	150	37.69	23	36.175	266	58.65	97	8.573	214	35.54	74	38.664	187	33.65	55
19	55.919	120	37.92	34	35.909	217	57.68	125	8.359	173	34.80	96	38.477	150	33.10	69
29	55.799	84	38.26	46	35.692	159	56.43	148	8.186	124	33.84	111	38.327	106	32.41	80
Mai 9	55.715	44	38.72	57	35.533	95	54.95	165	8.062	70	32.73	123	38.221	58	31.61	87
19	55.671	4	39.29	69	35.438	25	53.30	175	7.992	12	31.50	130	38.163	7	30.74	91
29	55.667	39	39.98	79	35.413	45	51.55	180	7.980	46	30.20	133	38.156	46	29.83	90
Juni 8	55.706	80	40.77	88	35.458	113	49.75	180	8.026	103	28.87	130	38.202	97	28.93	87
18	55.786	119	41.65	95	35.571	179	47.95	174	8.129	157	27.57	124	38.299	145	28.06	81
28	55.905	154	42.60	99	35.750	239	46.21	163	8.286	207	26.33	115	38.444	189	27.25	73
Juli 8	56.059	185	43.59	100	35.989	293	44.58	150	8.493	251	25.18	103	38.633	228	26.52	64
18	56.244	212	44.59	97	36.282	340	43.08	133	8.744	289	24.15	91	38.861	261	25.88	54
28	56.456	234	45.56	90	36.622	380	41.75	113	9.033	322	23.24	76	39.122	290	25.34	43
Aug. 7	56.690	253	46.46	80	37.002	414	40.62	92	9.355	347	22.48	60	39.412	313	24.91	33
17	56.943	266	47.26	66	37.416	438	39.70	70	9.702	368	21.88	45	39.725	330	24.58	24
27	57.209	276	47.92	48	37.854	457	39.00	47	10.070	383	21.43	30	40.055	343	24.34	15
Sept. 6	57.485	282	48.40	27	38.311	469	38.53	23	10.453	391	21.13	15	40.398	351	24.19	7
16	57.767	285	48.67	5	38.780	474	38.30	0	10.844	396	20.98	1	40.749	355	24.12	1
26	58.052	283	48.72	17	39.254	474	38.30	25	11.240	396	20.99	17	41.104	355	24.13	9
Okt. 6	58.335	278	48.55	39	39.728	465	38.55	49	11.636	389	21.16	32	41.459	349	24.22	17
16	58.613	270	48.16	60	40.193	449	39.04	73	12.025	377	21.48	49	41.808	339	24.39	26
26	58.883	257	47.56	78	40.642	427	39.77	97	12.402	359	21.97	64	42.147	324	24.65	35
Nov. 5	59.140	238	46.78	90	41.069	394	40.74	120	12.761	334	22.61	81	42.471	301	25.00	46
15	59.378	215	45.88	100	41.463	352	41.94	141	13.095	300	23.42	96	42.772	272	25.46	56
25	59.593	185	44.88	105	41.815	301	43.35	160	13.395	259	24.38	110	43.044	236	26.02	67
Dez. 5	59.778	150	43.83	104	42.116	240	44.95	175	13.654	210	25.48	123	43.280	193	26.69	76
15	$_{19}$59.928	109	42.79	100	$_{20}$42.356	171	46.70	184	$_{20}$13.864	153	26.71	132	$_{20}$43.473	143	27.45	85
24	60.037	66	41.79	93	42.527	97	48.54	189	14.017	91	28.03	137	43.616	88	28.30	91
34	60.103		40.86		42.624		50.43		14.108		29.40		43.704		29.21	
Mittl. Ort	55.337		51.06		35.116		57.03		7.573		36.69		37.708		37.30	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	
a, a'	+3.2		+0.7		+4.9		+0.5		+4.4		+0.4		+4.1		+0.4	
b, b'	0.00		−1.00		0.00		−1.00		0.00		−1.00		0.00		−1.00	

Obere Kulmination Greenwich

Tag	229) η Columbae AR.		229) η Columbae Dekl.		232) ν Orionis AR.		232) ν Orionis Dekl.		236) η Geminorum AR.		236) η Geminorum Dekl.		234) 22 H. Camelop. AR.		234) 22 H. Camelop. Dekl.	
1940	$5^h\ 57^m$		$-42°\ 48'$		$6^h\ 4^m$		$+14°\ 46'$		$6^h\ 11^m$		$+22°\ 31'$		$6^h\ 12^m$		$+69°\ 20'$	
	s		″		s		″		s		″		s		″	
Jan. 0	20.626	25	75.52	314	10.629	54	28.77	48	17.318	65	24.07	2	19.05	8	31.76	258
10	20.601	85	78.66	288	10.683	5	28.29	39	17.383	13	24.05	6	19.13	6	34.34	252
20	20.516	139	81.54	255	10.688	43	27.90	30	17.396	38	24.11	11	19.07	17	36.86	234
30	20.377	188	84.09	215	10.645	88	27.60	22	17.358	85	24.22	14	18.90	29	39.20	209
Febr. 9	20.189	230	86.24	171	10.557	127	27.38	16	17.273	127	24.36	15	18.61	40	41.29	175
19	19.959	262	87.95	124	10.430	157	27.22	10	17.146	161	24.51	14	18.21	47	43.04	134
29	19.697	282	89.19	75	10.273	179	27.12	7	16.985	184	24.65	9	17.74	53	44.38	87
März 10	19.415	292	89.94	24	10.094	189	27.05	3	16.801	196	24.74	5	17.21	56	45.25	38
20	19.123	290	90.18	24	9.905	188	27.02	1	16.605	197	24.79	1	16.65	56	45.63	13
30	18.833	276	89.94	72	9.717	177	27.01	2	16.408	187	24.78	6	16.09	53	45.50	62
Apr. 9	18.557	253	89.22	119	9.540	156	27.03	5	16.221	166	24.72	11	15.56	49	44.88	107
19	18.304	220	88.03	161	9.384	128	27.08	10	16.055	136	24.61	14	15.07	43	43.81	148
29	18.084	179	86.42	200	9.256	92	27.18	15	15.919	101	24.47	15	14.64	33	42.33	184
Mai 9	17.905	134	84.42	235	9.164	53	27.33	22	15.818	60	24.32	14	14.31	24	40.49	211
19	17.771	84	82.07	264	9.111	11	27.55	28	15.758	17	24.18	12	14.07	13	38.38	231
29	17.687	32	79.43	287	9.100	32	27.83	35	15.741	28	24.06	9	13.94	1	36.07	245
Juni 8	17.655	20	76.56	302	9.132	74	28.18	43	15.769	71	23.97	4	13.93	9	33.62	250
18	17.675	72	73.54	310	9.206	113	28.61	49	15.840	112	23.93	1	14.02	20	31.12	249
28	17.747	121	70.44	309	9.319	149	29.10	53	15.952	151	23.94	5	14.22	30	28.63	241
Juli 8	17.868	168	67.35	299	9.468	182	29.63	55	16.103	185	23.99	10	14.52	40	26.22	227
18	18.036	210	64.36	281	9.650	211	30.18	56	16.288	216	24.09	12	14.92	48	23.95	209
28	18.246	248	61.55	254	9.861	234	30.74	53	16.504	241	24.21	13	15.40	56	21.86	186
Aug. 7	18.494	280	59.01	217	10.095	254	31.27	47	16.745	261	24.34	13	15.96	62	20.00	159
17	18.774	305	56.84	174	10.349	269	31.74	39	17.006	279	24.47	9	16.58	67	18.41	129
27	19.079	326	55.10	123	10.618	280	32.13	27	17.285	292	24.56	5	17.25	71	17.12	98
Sept. 6	19.405	339	53.87	67	10.898	289	32.40	14	17.577	301	24.61	2	17.96	74	16.14	63
16	19.744	344	53.20	7	11.187	293	32.54	1	17.878	306	24.59	8	18.70	76	15.51	28
26	20.088	344	53.13	53	11.480	294	32.53	17	18.184	309	24.51	16	19.46	76	15.23	8
Okt. 6	20.432	335	53.66	113	11.774	291	32.36	31	18.493	307	24.35	22	20.22	75	15.31	45
16	20.767	319	54.79	169	12.065	284	32.05	44	18.800	301	24.13	28	20.97	74	15.76	83
26	21.086	295	56.48	221	12.349	272	31.61	55	19.101	290	23.85	31	21.71	70	16.59	119
Nov. 5	21.381	262	58.69	264	12.621	256	31.06	63	19.391	274	23.54	32	22.41	64	17.78	153
15	21.643	224	61.33	297	12.877	233	30.43	67	19.665	250	23.22	31	23.05	58	19.31	185
25	21.867	178	64.30	321	13.110	203	29.76	67	19.915	221	22.91	26	23.63	49	21.16	214
Dez. 5	22.045	126	67.51	333	13.313	169	29.09	64	20.136	185	22.65	20	24.12	39	23.30	237
15	(20) 22.171	69	70.84	333	(22) 13.482	128	28.45	58	(24) 20.321	142	22.45	11	(24) 24.51	28	25.67	252
24	22.240	11	74.17	323	13.610	82	27.87	51	20.463	95	22.34	4	24.79	16	28.19	261
34	22.251		77.40		13.692		27.36		20.558		22.30		24.95		30.80	
Mittl. Ort	18.510		63.44		8.695		38.32		15.291		33.55		14.25		39.42	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		1.083		+0.415		2.835		+2.653	
a, *a′*	+1.8		+0.2		+3.4		−0.4		+3.6		−1.0		+6.6		−1.1	
b, *b′*	0.00		−1.00		0.00		−1.00		0.00		−1.00		−0.01		−1.00	

Scheinbare Sternörter 1940

Tag	240) ζ Canis maj.				241) μ Geminorum				243) β Canis maj.				242) ψ¹ Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$6^h\ 18^m$		$-30^\circ\ 2'$		$6^h\ 19^m$		$+22^\circ\ 32'$		$6^h\ 20^m$		$-17^\circ\ 55'$		$6^h\ 20^m$		$+49^\circ\ 18'$	
	s		"		s		"		s		"		s		"	
Jan. 0	2.471	25	18.91	285	21.825	74	36.36	3	5.242	42	40.35	234	19.424	88	65.75	159
10	2.496	28	21.76	264	21.899	21	36.33	5	5.284	6	42.69	216	19.512	16	67.34	158
20	2.468	78	24.40	236	21.920	30	36.38	11	5.278	54	44.85	191	19.528	56	68.92	153
30	2.390	125	26.76	203	21.890	79	36.49	15	5.224	98	46.76	164	19.472	122	70.45	140
Febr. 9	2.265	165	28.79	165	21.811	122	36.64	17	5.126	137	48.40	133	19.350	182	71.85	120
19	2.100	198	30.44	125	21.689	156	36.81	16	4.989	169	49.73	100	19.168	230	73.05	95
29	1.902	220	31.69	84	21.533	181	36.97	13	4.820	191	50.73	66	18.938	265	74.00	66
März 10	1.682	233	32.53	41	21.352	195	37.10	8	4.629	203	51.39	33	18.673	284	74.66	34
20	1.449	235	32.94	2	21.157	197	37.18	2	4.426	204	51.72	2	18.389	288	75.00	1
30	1.214	226	32.92	44	20.960	188	37.20	3	4.222	197	51.70	34	18.101	276	75.01	31
Apr. 9	0.988	207	32.48	84	20.772	168	37.17	7	4.025	180	51.36	67	17.825	249	74.70	62
19	0.781	182	31.64	122	20.604	141	37.10	12	3.845	155	50.69	98	17.576	212	74.08	89
29	0.599	148	30.42	157	20.463	106	36.98	13	3.690	123	49.71	125	17.364	165	73.19	113
Mai 9	0.451	110	28.85	189	20.357	66	36.85	14	3.567	88	48.46	152	17.199	109	72.06	131
19	0.341	68	26.96	217	20.291	24	36.71	12	3.479	48	46.94	175	17.090	50	70.75	144
29	0.273	25	24.79	240	20.267	20	36.59	9	3.431	7	45.19	195	17.040	11	69.31	153
Juni 8	0.248	20	22.39	256	20.287	64	36.50	6	3.424	34	43.24	208	17.051	72	67.78	156
18	0.268	63	19.83	267	20.351	105	36.44	2	3.458	73	41.16	217	17.123	131	66.22	155
28	0.331	105	17.16	269	20.456	143	36.42	3	3.531	110	38.99	220	17.254	186	64.67	149
Juli 8	0.436	144	14.47	264	20.599	178	36.45	5	3.641	145	36.79	217	17.440	236	63.18	142
18	0.580	179	11.83	251	20.777	209	36.50	8	3.786	177	34.62	207	17.676	280	61.76	130
28	0.759	211	9.32	229	20.986	235	36.58	8	3.963	205	32.55	189	17.956	318	60.46	117
Aug. 7	0.970	239	7.03	201	21.221	256	36.66	7	4.168	228	30.66	165	18.274	352	59.29	102
17	1.209	262	5.02	164	21.477	275	36.73	4	4.396	248	29.01	135	18.626	378	58.27	86
27	1.471	280	3.38	121	21.752	288	36.77	1	4.644	263	27.66	99	19.004	400	57.41	68
Sept. 6	1.751	293	2.17	72	22.040	299	36.76	7	4.907	276	26.67	57	19.404	415	56.73	51
16	2.044	303	1.45	19	22.339	306	36.69	15	5.183	283	26.10	14	19.819	425	56.22	31
26	2.347	305	1.26	34	22.645	310	36.54	22	5.466	287	25.96	32	20.244	430	55.91	12
Okt. 6	2.652	303	1.60	88	22.955	309	36.32	28	5.753	285	26.28	77	20.674	428	55.79	8
16	2.955	295	2.48	140	23.264	304	36.04	34	6.038	280	27.05	121	21.102	421	55.87	30
26	3.250	280	3.88	186	23.568	295	35.70	37	6.318	267	28.26	160	21.523	406	56.17	51
Nov. 5	3.530	259	5.74	227	23.863	279	35.33	37	6.585	250	29.86	193	21.929	383	56.68	73
15	3.789	230	8.01	260	24.142	258	34.96	35	6.835	227	31.79	218	22.312	351	57.41	95
25	4.019	195	10.61	282	24.400	228	34.61	31	7.062	196	33.97	237	22.663	308	58.36	115
Dez. 5	4.214	154	13.43	295	24.628	193	34.30	24	7.258	160	36.34	246	22.971	258	59.51	133
15	4.368	107	16.38	297	24.821	151	34.06	15	7.418	117	38.80	247	23.229	198	60.84	148
25	4.475	56	19.35	291	24.972	104	33.91	5	7.535	72	41.27	240	23.427	131	62.32	158
34	^{26}4.531		22.26		^{26}25.076		33.86		^{26}7.607		43.67		^{26}23.558		63.90	
Mittl. Ort	0.511		7.90		19.802		46.20		3.378		29.54		16.670		74.80	
sec δ, tg δ	1.155		−0.578		1.083		+0.415		1.051		−0.323		1.534		+1.163	
a, a'	+2.3		−1.6		+3.6		−1.7		+2.6		−1.8		+4.6		−1.8	
b, b'	0.00		−1.00		0.00		−1.00		0.00		−1.00		−0.01		−1.00	

Tag		244) 8 ε Monocerotis AR.		244) Dekl.		245) α Carinae AR.		245) Dekl.		246) 10 Monocerotis AR.		246) Dekl.		247) 8 Lyncis AR.		247) Dekl.	
1940		$6^h\ 20^m$		$+4°\ 37'$		$6^h\ 22^m$		$-52°\ 39'$		$6^h\ 24^m$		$-4°\ 43'$		$6^h\ 32^m$		$+61°\ 31'$	
		s		"		s		"		s		"		s		"	
Jan.	0	37.126	63	19.39	113	39.675	21	54.48	348	61.560	60	35.40	168	16.22	11	61.90	220
	10	37.189	15	18.26	99	39.654	93	57.96	325	61.620	13	37.08	152	16.33	2	64.10	221
	20	37.204	32	17.27	85	39.561	160	61.21	294	61.633	35	38.60	134	16.35	7	66.31	213
	30	37.172	77	16.42	69	39.401	222	64.15	256	61.598	79	39.94	112	16.28	17	68.44	195
Febr.	9	37.095	116	15.73	53	39.179	274	66.71	211	61.519	119	41.06	90	16.11	25	70.39	169
	19	36.979	148	15.20	38	38.905	316	68.82	164	61.400	150	41.96	66	15.86	32	72.08	137
	29	36.831	171	14.82	24	38.589	346	70.46	113	61.250	173	42.62	44	15.54	37	73.45	99
März	10	36.660	183	14.58	10	38.243	362	71.59	60	61.077	185	43.06	21	15.17	39	74.44	57
	20	36.477	185	14.48	3	37.881	365	72.19	7	60.892	189	43.27	2	14.78	41	75.01	13
	30	36.292	177	14.51	16	37.516	356	72.26	44	60.703	181	43.25	23	14.37	39	75.14	30
Apr.	9	36.115	160	14.67	29	37.160	335	71.82	95	60.522	165	43.02	44	13.98	37	74.84	72
	19	35.955	135	14.96	41	36.825	302	70.87	142	60.357	141	42.58	65	13.61	32	74.12	111
	29	35.820	103	15.37	54	36.523	262	69.45	186	60.216	111	41.93	84	13.29	26	73.01	143
Mai	9	35.717	67	15.91	66	36.261	213	67.59	226	60.105	75	41.09	103	13.03	19	71.58	171
	19	35.650	27	16.57	77	36.048	159	65.33	261	60.030	37	40.06	119	12.84	11	69.87	193
	29	35.623	12	17.34	87	35.889	100	62.72	288	59.993	2	38.87	134	12.73	3	67.94	208
Juni	8	35.635	52	18.21	97	35.789	40	59.84	309	59.995	42	37.53	144	12.70	5	65.86	217
	18	35.687	90	19.18	102	35.749	21	56.75	322	60.037	79	36.09	152	12.75	13	63.69	219
	28	35.777	126	20.20	106	35.770	81	53.53	325	60.116	115	34.57	155	12.88	20	61.50	215
Juli	8	35.903	158	21.26	106	35.851	140	50.28	320	60.231	148	33.02	154	13.08	28	59.35	208
	18	36.061	187	22.32	101	35.991	195	47.08	305	60.379	177	31.48	147	13.36	34	57.27	195
	28	36.248	212	23.33	94	36.186	245	44.03	280	60.556	202	30.01	135	13.70	39	55.32	179
Aug.	7	36.460	233	24.27	82	36.431	290	41.23	246	60.758	225	28.66	118	14.09	45	53.53	158
	17	36.693	250	25.09	65	36.721	330	38.77	204	60.983	243	27.48	95	14.54	49	51.95	136
	27	36.943	263	25.74	45	37.051	362	36.73	153	61.226	257	26.53	68	15.03	52	50.59	111
Sept.	6	37.206	273	26.19	23	37.413	385	35.20	96	61.483	269	25.85	38	15.55	54	49.48	85
	16	37.479	281	26.42	2	37.798	400	34.24	35	61.752	277	25.47	5	16.09	57	48.63	55
	26	37.760	284	26.40	28	38.198	406	33.89	29	62.029	281	25.42	30	16.66	57	48.08	25
Okt.	6	38.044	283	26.12	53	38.604	401	34.18	93	62.310	280	25.72	64	17.23	58	47.83	6
	16	38.327	279	25.59	76	39.005	387	35.11	155	62.590	277	26.36	96	17.81	56	47.89	38
	26	38.606	270	24.83	96	39.392	361	36.66	213	62.867	267	27.32	125	18.37	55	48.27	70
Nov.	5	38.876	255	23.87	112	39.753	326	38.79	262	63.134	253	28.57	148	18.92	52	48.97	103
	15	39.131	235	22.75	123	40.079	279	41.41	303	63.387	232	30.05	166	19.44	47	50.00	133
	25	39.366	208	21.52	129	40.358	225	44.44	333	63.619	205	31.71	178	19.91	42	51.33	162
Dez.	5	39.574	174	20.23	130	40.583	163	47.77	351	63.824	172	33.49	183	20.33	35	52.95	187
	15	39.748	135	18.93	126	40.746	95	51.28	358	63.996	132	35.32	180	20.68	26	54.82	206
	25	39.883	91	17.67	117	40.841	23	54.86	353	64.128	88	37.12	172	20.94	18	56.88	220
	34	[26] 39.974		16.50		[27] 40.864		58.39		[27] 64.216		38.84		[29] 21.12		59.08	
Mittl. Ort		35.264		29.77		37.145		43.66		59.721		24.82		12.64		71.59	
sec δ, tg δ		1.003		+0.081		1.649		−1.311		1.003		−0.083		2.098		+1.845	
a, a′		+3.2		−1.8		+1.3		−2.0		+3.0		−2.2		+5.5		−2.8	
b, b′		0.00		−1.00		+0.01		−1.00		0.00		−0.99		−0.02		−0.99	

Scheinbare Sternörter 1940

Tag	249) ξ² Canis maj. AR.		249) ξ² Canis maj. Dekl.		251) γ Geminorum AR.		251) γ Geminorum Dekl.		250) 51 Aurigae AR.		250) 51 Aurigae Dekl.		252) ν Puppis AR.		252) ν Puppis Dekl.	
1940	6h 32m		−22° 54′		6h 34m		+16° 26′		6h 34m		+39° 26′		6h 35m		−43° 8′	
	s		"		s		"		s		"		s		"	
Jan. 0	34.332	50	68.23	262	16.681	85	57.30	44	32.458	101	34.22	98	57.677	24	42.54	334
10	34.382	1	70.85	243	16.766	34	56.86	33	32.559	38	35.20	105	57.701	38	45.88	314
20	34.381	50	73.28	218	16.800	17	56.53	22	32.597	23	36.25	106	57.663	98	49.02	286
30	34.331	97	75.46	189	16.783	64	56.31	13	32.574	83	37.31	101	57.565	153	51.88	251
Febr. 9	34.234	138	77.35	156	16.719	108	56.18	5	32.491	136	38.32	91	57.412	201	54.39	211
19	34.096	172	78.91	121	16.611	143	56.13	0	32.355	180	39.23	77	57.211	239	56.50	167
29	33.924	196	80.12	83	16.468	169	56.13	4	32.175	212	40.00	58	56.972	268	58.17	119
März 10	33.728	210	80.95	46	16.299	185	56.17	7	31.963	232	40.58	37	56.704	286	59.36	70
20	33.518	214	81.41	8	16.114	190	56.24	7	31.731	238	40.95	14	56.418	291	60.06	22
30	33.304	209	81.49	28	15.924	183	56.31	8	31.493	231	41.09	9	56.127	286	60.28	28
Apr. 9	33.095	193	81.21	65	15.741	168	56.39	9	31.262	212	41.00	32	55.841	269	60.00	76
19	32.902	169	80.56	99	15.573	143	56.48	10	31.050	182	40.68	52	55.572	243	59.24	120
29	32.733	140	79.57	131	15.430	111	56.58	12	30.868	143	40.16	69	55.329	209	58.04	163
Mai 9	32.593	104	78.26	161	15.319	75	56.70	15	30.725	98	39.47	83	55.120	169	56.41	202
19	32.489	66	76.65	186	15.244	35	56.85	19	30.627	49	38.64	94	54.951	125	54.39	235
29	32.423	25	74.79	207	15.209	5	57.04	23	30.578	2	37.70	100	54.826	76	52.04	263
Juni 8	32.398	16	72.72	224	15.214	47	57.27	27	30.580	53	36.70	103	54.750	26	49.41	285
18	32.414	56	70.48	235	15.261	86	57.54	31	30.633	102	35.67	104	54.724	24	46.56	298
28	32.470	95	68.13	239	15.347	123	57.85	34	30.735	148	34.63	101	54.748	74	43.58	305
Juli 8	32.565	132	65.74	236	15.470	157	58.19	35	30.883	190	33.62	97	54.822	122	40.53	301
18	32.697	165	63.38	226	15.627	187	58.54	34	31.073	229	32.65	90	54.944	167	37.52	290
28	32.862	195	61.12	208	15.814	214	58.88	31	31.302	262	31.75	84	55.111	208	34.62	269
Aug. 7	33.057	221	59.04	184	16.028	236	59.19	25	31.564	290	30.91	76	55.319	245	31.93	238
17	33.278	244	57.20	151	16.264	255	59.44	18	31.854	315	30.15	68	55.564	278	29.55	199
27	33.522	263	55.69	113	16.519	271	59.62	7	32.169	333	29.47	59	55.842	305	27.56	153
Sept. 6	33.785	277	54.56	70	16.790	283	59.69	5	32.502	349	28.88	51	56.147	326	26.03	100
16	34.062	287	53.86	22	17.073	291	59.64	19	32.851	360	28.37	42	56.473	341	25.03	42
26	34.349	293	53.64	27	17.364	298	59.45	32	33.211	367	27.95	32	56.814	349	24.61	18
Okt. 6	34.642	294	53.91	76	17.662	300	59.13	45	33.578	369	27.63	21	57.163	349	24.79	80
16	34.936	289	54.67	123	17.962	297	58.68	57	33.947	366	27.42	9	57.512	341	25.59	139
26	35.225	279	55.90	167	18.259	291	58.11	66	34.313	357	27.33	5	57.853	326	26.98	194
Nov. 5	35.504	262	57.57	205	18.550	277	57.45	71	34.670	340	27.38	19	58.179	300	28.92	244
15	35.766	238	59.62	235	18.827	259	56.74	73	35.010	317	27.57	36	58.479	267	31.36	283
25	36.004	208	61.97	256	19.086	232	56.01	72	35.327	283	27.93	53	58.746	225	34.19	313
Dez. 5	36.212	170	64.53	268	19.318	199	55.29	66	35.610	242	28.46	68	58.971	176	37.32	333
15	36.382	127	67.21	272	19.517	159	54.63	58	35.852	193	29.14	83	59.147	121	40.65	341
25	36.509	80	69.93	267	^{30}19.676	114	54.05	49	36.045	137	29.97	96	59.268	61	44.06	338
34	^{29}36.589		72.60		19.790		53.56		^{30}36.182		30.93		^{30}59.329		47.44	
Mittl. Ort	32.420		57.68		14.740		67.84		30.110		44.51		55.433		32.36	
sec δ, tg δ	1.086		−0.423		1.043		+0.295		1.295		+0.823		1.371		−0.937	
a, *a′*	+2.5		−2.8		+3.5		−3.0		+4.2		−3.0		+1.8		−3.1	
b, *b′*	0.00		−0.99		0.00		−0.99		−0.01		−0.99		+0.01		−0.99	

Tag	248) 23 H. Camelop. AR.		Dekl.		253) *S* Monocerotis AR.		Dekl.		254) ε Geminorum AR.		Dekl.		256) ξ Geminorum AR.		Dekl.	
1940	$6^h\ 35^m$		$+79°37'$		$6^h\ 37^m$		$+9°\ 56'$		$6^h\ 40^m$		$+25°\ 11'$		$6^h\ 41^m$		$+12°\ 57'$	
	s		″		s		″		s		″		s		″	
Jan. 0*)	^{0}70.54	19	54.68	296	^{0}42.273	83	59.47	85	16.486	96	21.57	10	57.197	90	32.10	68
10	70.73	6	57.64	292	42.356	34	58.62	72	^{1}16.582	43	21.67	19	^{1}57.287	40	31.42	56
20	70.67	30	60.56	280	42.390	15	57.90	59	16.625	11	21.86	28	57.327	11	30.86	43
30	70.37	53	63.36	255	42.375	62	57.31	45	16.614	62	22.14	32	57.316	59	30.43	30
Febr. 9	69.84	74	65.91	221	42.313	104	56.86	33	16.552	109	22.46	34	57.257	101	30.13	20
19	69.10	91	68.12	177	42.209	139	56.53	21	16.443	147	22.80	33	57.156	137	29.93	11
29	68.19	103	69.89	127	42.070	165	56.32	11	16.296	177	23.13	28	57.019	165	29.82	4
März 10	67.16	111	71.16	73	41.905	180	56.21	2	16.119	194	23.41	21	56.854	181	29.78	3
20	66.05	115	71.89	16	41.725	185	56.19	5	15.925	200	23.62	14	56.673	186	29.81	7
30	64.90	112	72.05	40	41.540	180	56.24	13	15.725	195	23.76	5	56.487	182	29.88	12
Apr. 9	63.78	106	71.65	94	41.360	165	56.37	20	15.530	179	23.81	4	56.305	168	30.00	15
19	62.72	94	70.71	145	41.195	142	56.57	27	15.351	154	23.77	11	56.137	145	30.15	20
29	61.78	80	69.26	188	41.053	112	56.84	35	15.197	122	23.66	17	55.992	114	30.35	25
Mai 9	60.98	64	67.38	225	40.941	77	57.19	42	15.075	83	23.49	20	55.878	80	30.60	29
19	60.34	44	65.13	254	40.864	39	57.61	50	14.992	42	23.29	23	55.798	42	30.89	35
29	59.90	23	62.59	275	40.825	1	58.11	57	14.950	1	23.06	24	55.756	2	31.24	40
Juni 8	59.67	2	59.84	288	40.826	40	58.68	63	14.951	44	22.82	23	55.754	38	31.64	46
18	59.65	18	56.96	293	40.866	79	59.31	68	14.995	86	22.59	22	55.792	76	32.10	49
28	59.83	39	54.03	290	40.945	114	59.99	70	15.081	125	22.37	20	55.868	113	32.59	51
Juli 8	60.22	59	51.13	280	41.059	148	60.69	71	15.206	161	22.17	17	55.981	146	33.10	52
18	60.81	77	48.33	264	41.207	177	61.40	68	15.367	193	22.00	17	56.127	176	33.62	49
28	61.58	93	45.69	242	41.384	203	62.08	63	15.560	222	21.83	16	56.303	203	34.11	45
Aug. 7	62.51	107	43.27	215	41.587	226	62.71	53	15.782	247	21.67	17	56.506	226	34.56	38
17	63.58	119	41.12	184	41.813	244	63.24	40	16.029	267	21.50	20	56.732	245	34.94	26
27	64.77	130	39.28	149	42.057	261	63.64	25	16.296	284	21.30	23	56.977	262	35.20	14
Sept. 6	66.07	137	37.79	111	42.318	273	63.89	7	16.580	298	21.07	27	57.239	275	35.34	2
16	67.44	143	36.68	70	42.591	282	63.96	13	16.878	308	20.80	32	57.514	285	35.32	19
26	68.87	145	35.98	27	42.873	289	63.83	33	17.186	315	20.48	37	57.799	291	35.13	36
Okt. 6	70.32	145	35.71	17	43.162	291	63.50	53	17.501	319	20.11	41	58.090	295	34.77	53
16	71.77	142	35.88	61	43.453	289	62.97	71	17.820	317	19.70	43	58.385	294	34.24	68
26	73.19	136	36.49	106	43.742	283	62.26	86	18.137	310	19.27	43	58.679	289	33.56	80
Nov. 5	74.55	127	37.55	149	44.025	271	61.40	98	18.447	298	18.84	41	58.968	276	32.76	89
15	75.82	115	39.04	190	44.296	252	60.42	105	18.745	279	18.43	35	59.244	259	31.87	93
25	76.97	98	40.94	226	44.548	227	59.37	107	19.024	252	18.08	28	59.503	234	30.94	94
Dez. 5	77.95	80	43.20	257	44.775	195	58.30	105	19.276	217	17.80	17	59.737	201	30.00	90
15	78.75	59	45.77	280	44.970	156	57.25	99	19.493	176	17.63	7	59.938	163	29.10	83
25	79.34	34	48.57	294	45.126	112	56.26	90	19.669	127	17.56	6	60.101	118	28.27	73
34	^{30}79.68		51.51		^{31}45.238		55.36		^{31}19.796		17.62		^{32}60.219		27.54	
Mittl. Ort	61.85		64.32		40.385		70.13		14.446		32.31		55.292		42.87	
sec δ, tg δ	5.558		+5.467		1.015		+0.175		1.105		+0.470		1.026		+0.230	
a, a′	+10.3		−3.1		+3.3		−3.3		+3.7		−3.5		+3.4		−3.6	
b, b′	−0.06		−0.99		0.00		−0.99		−0.01		−0.98		0.00		−0.98	

*) Bei Stern 254) und 256) lies Jan. 1.

Scheinbare Sternörter 1940

Tag	257) α Canis maj. [1]				258) 18 Monocerotis				262) α Pictoris				261) ϑ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$6^h\ 42^m$		−16° 37′		$6^h\ 44^m$		+2° 28′		$6^h\ 47^m$		−61° 52′		$6^h\ 48^m$		+34° 1′	
	s		″		s		″		s		″		s		″	
Jan. 1	$_{2}$32.170	62	68.99	237	$_{2}$45.740	85	34.94	133	$_{3}$37.76	2	44.45	368	$_{3}$52.307	113	56.55	63
10	32.232	12	71.36	220	45.825	36	33.61	118	37.74	10	48.13	350	52.420	55	57.18	72
20	32.244	37	73.56	197	45.861	13	32.43	101	37.64	20	51.63	325	52.475	4	57.90	79
30	32.207	82	75.53	170	45.848	59	31.42	83	37.44	27	54.88	290	52.471	61	58.69	79
Febr. 9	32.125	124	77.23	140	45.789	101	30.59	65	37.17	34	57.78	249	52.410	113	59.48	76
19	32.001	157	78.63	108	45.688	135	29.94	47	36.83	40	60.27	202	52.297	156	60.24	67
29	31.844	182	79.71	76	45.553	162	29.47	31	36.43	45	62.29	153	52.141	189	60.91	56
März 10	31.662	197	80.47	42	45.391	178	29.16	14	35.98	47	63.82	100	51.952	210	61.47	40
20	31.465	202	80.89	10	45.213	184	29.02	2	35.51	48	64.82	46	51.742	219	61.87	23
30	31.263	197	80.99	22	45.029	180	29.04	16	35.03	48	65.28	8	51.523	216	62.10	5
Apr. 9	31.066	183	80.77	54	44.849	166	29.20	30	34.55	46	65.20	61	51.307	199	62.15	12
19	30.883	160	80.23	83	44.683	145	29.50	45	34.09	43	64.59	111	51.108	174	62.03	29
29	30.723	131	79.40	111	44.538	117	29.95	57	33.66	39	63.48	160	50.934	141	61.74	43
Mai 9	30.592	98	78.29	137	44.421	83	30.52	71	33.27	33	61.88	204	50.793	100	61.31	54
19	30.494	60	76.92	159	44.338	47	31.23	83	32.94	27	59.84	243	50.693	56	60.77	64
29	30.434	21	75.33	177	44.291	9	32.06	93	32.67	21	57.41	276	50.637	10	60.13	69
Juni 8	30.413	18	73.56	193	44.282	30	32.99	102	32.46	13	54.65	302	50.627	37	59.44	73
18	30.431	57	71.63	202	44.312	67	34.01	107	32.33	5	51.63	321	50.664	82	58.71	75
28	30.488	95	69.61	206	44.379	103	35.08	111	32.28	2	48.42	330	50.746	125	57.96	75
Juli 8	30.583	129	67.55	204	44.482	135	36.19	111	32.30	10	45.12	330	50.871	165	57.21	72
18	30.712	161	65.51	195	44.617	164	37.30	106	32.40	17	41.82	321	51.036	200	56.49	69
28	30.873	189	63.56	180	44.781	192	38.36	97	32.57	24	38.61	301	51.236	233	55.80	67
Aug. 7	31.062	214	61.76	157	44.973	214	39.33	84	32.81	31	35.60	271	51.469	260	55.13	63
17	31.276	235	60.19	129	45.187	234	40.17	67	33.12	37	32.89	232	51.729	284	54.50	60
27	31.511	254	58.90	94	45.421	251	40.84	45	33.49	42	30.57	185	52.013	304	53.90	57
Sept. 6	31.765	268	57.96	55	45.672	264	41.29	21	33.91	46	28.72	129	52.317	321	53.33	54
16	32.033	279	57.41	13	45.936	275	41.50	5	34.37	49	27.43	68	52.638	333	52.79	51
26	32.312	285	57.28	31	46.211	282	41.45	33	34.86	50	26.75	4	52.971	342	52.28	46
Okt. 6	32.597	287	57.59	76	46.493	286	41.12	60	35.36	51	26.71	63	53.313	347	51.82	41
16	32.884	284	58.35	119	46.779	285	40.52	86	35.87	49	27.34	128	53.660	347	51.41	34
26	33.168	276	59.54	158	47.064	280	39.66	109	36.36	47	28.62	190	54.007	341	51.07	25
Nov. 5	33.444	261	61.12	191	47.344	268	38.57	127	36.83	43	30.52	245	54.348	328	50.82	14
15	33.705	240	63.03	218	47.612	250	37.30	140	37.26	37	32.97	292	54.676	309	50.68	1
25	33.945	212	65.21	237	47.862	225	35.90	148	37.63	30	35.89	329	54.985	280	50.67	13
Dez. 5	34.157	177	67.58	247	48.087	195	34.42	149	37.93	22	39.18	354	55.265	243	50.80	29
15	34.334	136	70.05	248	48.282	156	32.93	146	38.15	13	42.72	367	55.508	199	51.09	44
25	34.470	91	72.53	242	48.438	112	31.47	136	38.28	5	46.39	370	55.707	147	51.53	58
34	^{32}34.561		74.95		^{32}48.550		30.11		^{33}38.33		50.09		^{34}55.854		52.11	
Mittl. Ort	30.292		58.35		43.888		45.65		34.54		35.48		50.126		67.73	
sec δ, tg δ	1.044		−0.299		1.001		+0.043		2.121		−1.871		1.207		+0.675	
a, *a′*	+2.7		−3.7		+3.1		−3.9		+0.6		−4.1		+4.0		−4.2	
b, *b′*	0.00		−0.98		0.00		−0.98		+0.03		−0.98		−0.01		−0.98	

[1]) Ort des Hauptsterns; die jährliche Parallaxe (0.″371) ist bereits berücksichtigt.

Tag	266) ϑ Canis maj.				265) 15 Lyncis *m*				268) ε Canis maj.				269) ζ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	6^h 51^m		−11° 57′		6^h 52^m		+58° 29′		6^h 56^m		−28° 53′		7^h 0^m		+20° 39′	
	s		″		s		″		s		″		s		″	
Jan. 1	$_4$25.939	80	54.04	215	$_4$8.367	151	62.39	203	$_5$18.014	69	31.01	294	$_6$34.992	114	24.60	24
10	26.019	31	56.19	199	8.518	61	64.42	208	18.083	16	33.95	278	35.106	62	24.36	11
20	26.050	19	58.18	178	8.579	30	66.50	205	18.099	38	36.73	255	35.168	9	24.25	1
30	26.031	65	59.96	154	8.549	117	68.55	195	18.061	88	39.28	225	35.177	43	24.26	11
Febr. 9	25.966	107	61.50	127	8.432	196	70.50	175	17.973	133	41.53	191	35.134	90	24.37	17
19	25.859	143	62.77	99	8.236	263	72.25	148	17.840	171	43.44	154	35.044	129	24.54	22
29	25.716	170	63.76	69	7.973	314	73.73	115	17.669	199	44.98	113	34.915	161	24.76	24
März 10	25.546	186	64.45	41	7.659	349	74.88	78	17.470	218	46.11	73	34.754	181	25.00	22
20	25.360	193	64.86	12	7.310	364	75.66	37	17.252	227	46.84	32	34.573	191	25.22	20
30	25.167	190	64.98	16	6.946	361	76.03	5	17.025	225	47.16	10	34.382	190	25.42	16
Apr. 9	24.977	178	64.82	43	6.585	339	75.98	45	16.800	213	47.06	50	34.192	177	25.58	11
19	24.799	158	64.39	71	6.246	302	75.53	83	16.587	193	46.56	89	34.015	157	25.69	8
29	24.641	132	63.68	95	5.944	253	74.70	117	16.394	166	45.67	125	33.858	128	25.77	4
Mai 9	24.509	99	62.73	117	5.691	193	73.53	146	16.228	133	44.42	159	33.730	94	25.81	2
19	24.410	64	61.56	139	5.498	126	72.07	170	16.095	96	42.83	189	33.636	56	25.83	1
29	24.346	26	60.17	157	5.372	55	70.37	187	15.999	56	40.94	214	33.580	17	25.84	0
Juni 8	24.320	12	58.60	170	5.317	18	68.50	200	15.943	15	38.80	234	33.563	24	25.84	1
18	24.332	50	56.90	180	5.335	90	66.50	206	15.928	26	36.46	249	33.587	64	25.85	1
28	24.382	85	55.10	184	5.425	159	64.44	208	15.954	67	33.97	256	33.651	101	25.86	2
Juli 8	24.467	119	53.26	184	5.584	225	62.36	203	16.021	105	31.41	256	33.752	136	25.88	1
18	24.586	151	51.42	177	5.809	284	60.33	195	16.126	142	28.85	247	33.888	168	25.89	0
28	24.737	179	49.65	164	6.093	338	58.38	184	16.268	175	26.38	232	34.056	197	25.89	3
Aug. 7	24.916	204	48.01	145	6.431	385	56.54	168	16.443	206	24.06	208	34.253	222	25.86	7
17	25.120	226	46.56	119	6.816	427	54.86	150	16.649	233	21.98	175	34.475	244	25.79	13
27	25.346	245	45.37	89	7.243	461	53.36	129	16.882	257	20.23	136	34.719	263	25.66	21
Sept. 6	25.591	260	44.48	54	7.704	489	52.07	106	17.139	277	18.87	91	34.982	280	25.45	31
16	25.851	273	43.94	15	8.193	510	51.01	81	17.416	291	17.96	42	35.262	292	25.14	40
26	26.124	281	43.79	26	8.703	524	50.20	54	17.707	302	17.54	11	35.554	303	24.74	49
Okt. 6	26.405	286	44.05	66	9.227	531	49.66	26	18.009	308	17.65	65	35.857	309	24.25	59
16	26.691	285	44.71	105	9.758	529	49.40	5	18.317	306	18.30	117	36.166	311	23.66	66
26	26.976	280	45.76	142	10.287	518	49.45	36	18.623	299	19.47	166	36.477	308	23.00	69
Nov. 5	27.256	267	47.18	172	10.805	495	49.81	68	18.922	285	21.13	210	36.785	299	22.31	72
15	27.523	250	48.90	197	11.300	461	50.49	100	19.207	261	23.23	246	37.084	284	21.59	69
25	27.773	224	50.87	214	11.761	415	51.49	130	19.468	232	25.69	273	37.368	260	20.90	63
Dez. 5	27.997	191	53.01	223	12.176	356	52.79	157	19.700	194	28.42	291	37.628	228	20.27	54
15	28.188	152	55.24	225	12.532	285	54.36	180	19.894	150	31.33	299	37.856	190	19.73	43
25	28.340	108	57.49	219	12.817	204	56.16	198	20.044	101	34.32	297	38.046	144	19.30	30
34*)	$_{34}$28.448		59.68		$_{34}$13.021		58.14		$_{35}$20.145		37.29		$_{36}$38.190		19.00	
Mittl. Ort	24.081		43.66		5.165		73.79		16.013		21.37		33.041		36.07	
sec δ, tg δ	1.022		−0.212		1.914		+1.632		1.142		−0.552		1.069		+0.377	
a, *a′*	+2.8		−4.5		+5.2		−4.5		+2.4		−4.9		+3.6		−5.2	
b, *b′*	0.00		−0.97		−0.02		−0.97		+0.01		−0.97		−0.01		−0.97	

*) Bei Stern 268) und 269) lies Dez. 35.

Tag	271) γ Canis maj. AR.	271) γ Canis maj. Dekl.	273) δ Canis maj. AR.	273) δ Canis maj. Dekl.	274) 63 Aurigae AR.	274) 63 Aurigae Dekl.	277) λ Geminorum AR.	277) λ Geminorum Dekl.
1940	7h 1m	−15° 32′	7h 5m	−26° 17′	7h 7m	+39° 24′	7h 14m	+16° 38′
	s	″	s	″	s	″	s	″
Jan. 1	6 4.461 87	45.91 236	8 59.019 82	57.67 287	3 34.092 142	60.85 91	10 40.605 125	49.16 54
10	4.548 36	48.27 221	59.101 30	60.54 272	34.234 79	61.76 103	40.730 74	48.62 38
20	4.584 13	50.48 199	59.131 23	63.26 249	34.313 15	62.79 111	40.804 22	48.24 25
30	4.571 61	52.47 174	59.108 74	65.75 221	34.328 47	63.90 112	40.826 30	47.99 11
Febr. 9	4.510 105	54.21 146	59.034 119	67.96 189	34.281 104	65.02 107	40.796 77	47.88 0
19	4.405 141	55.67 115	58.915 157	69.85 153	34.177 154	66.09 98	40.719 118	47.88 9
29	4.264 168	56.82 84	58.758 187	71.38 115	34.023 193	67.07 83	40.601 149	47.97 14
März 10	4.096 188	57.66 52	58.571 207	72.53 76	33.830 219	67.90 63	40.452 172	48.11 18
20	3.908 196	58.18 20	58.364 217	73.29 36	33.611 233	68.53 41	40.280 184	48.29 20
30	3.712 195	58.38 11	58.147 217	73.65 2	33.378 233	68.94 19	40.096 185	48.49 21
Apr. 9	3.517 185	58.27 41	57.930 207	73.63 42	33.145 220	69.13 5	39.911 175	48.70 20
19	3.332 165	57.86 70	57.723 189	73.21 79	32.925 198	69.08 28	39.736 157	48.90 19
29	3.167 140	57.16 99	57.534 163	72.42 114	32.727 165	68.80 49	39.579 132	49.09 19
Mai 9	3.027 109	56.17 123	57.371 132	71.28 146	32.562 125	68.31 66	39.447 100	49.28 19
19	2.918 75	54.94 147	57.239 97	69.82 175	32.437 81	67.65 81	39.347 66	49.47 20
29	2.843 38	53.47 166	57.142 59	68.07 201	32.356 33	66.84 93	39.281 28	49.67 20
Juni 8	2.805 0	51.81 183	57.083 19	66.06 221	32.323 15	65.91 101	39.253 11	49.87 21
18	2.805 38	49.98 193	57.064 20	63.85 235	32.338 63	64.90 107	39.264 48	50.08 22
28	2.843 74	48.05 199	57.084 60	61.50 244	32.401 109	63.83 109	39.312 85	50.30 22
Juli 8	2.917 109	46.06 198	57.144 97	59.06 244	32.510 151	62.74 110	39.397 118	50.52 21
18	3.026 140	44.08 193	57.241 132	56.62 237	32.661 192	61.64 109	39.515 151	50.73 17
28	3.166 170	42.15 179	57.373 166	54.25 223	32.853 228	60.55 105	39.666 179	50.90 13
Aug. 7	3.336 197	40.36 159	57.539 196	52.02 201	33.081 259	59.50 101	39.845 204	51.03 6
17	3.533 221	38.77 133	57.735 223	50.01 170	33.340 287	58.49 97	40.049 228	51.09 3
27	3.754 241	37.44 101	57.958 247	48.31 134	33.627 311	57.52 91	40.277 248	51.06 15
Sept. 6	3.995 258	36.43 64	58.205 267	46.97 90	33.938 332	56.61 84	40.525 266	50.91 27
16	4.253 273	35.79 22	58.472 284	46.07 43	34.270 349	55.77 76	40.791 280	50.64 41
26	4.526 283	35.57 20	58.756 296	45.64 8	34.619 361	55.01 68	41.071 293	50.23 55
Okt. 6	4.809 289	35.77 64	59.052 303	45.72 60	34.980 370	54.33 57	41.364 301	49.68 68
16	5.098 289	36.41 107	59.355 304	46.32 111	35.350 374	53.76 45	41.665 305	49.00 79
26	5.387 286	37.48 146	59.659 299	47.43 158	35.724 371	53.31 29	41.970 305	48.21 88
Nov. 5	5.673 275	38.94 180	59.958 286	49.01 201	36.095 360	53.02 13	42.275 299	47.33 93
15	5.948 256	40.74 208	60.244 267	51.02 237	36.455 342	52.89 6	42.574 285	46.40 94
25	6.204 232	42.82 229	60.511 238	53.39 264	36.797 315	52.95 26	42.859 264	45.46 91
Dez. 5	6.436 199	45.11 240	60.749 204	56.03 282	37.112 278	53.21 46	43.123 234	44.55 83
15	6.635 160	47.51 244	60.953 161	58.85 290	37.390 231	53.67 66	43.357 198	43.72 73
25	6.795 115	49.95 239	61.114 113	61.75 289	37.621 178	54.33 84	43.555 154	42.99 60
35	6.910	52.34	61.227	64.64	37.799	55.17	43.709	42.39
Mittl. Ort	2.584	35.84	57.045	48.28	31.837	73.17	38.716	60.90
sec δ, tg δ	1.038	−0.278	1.115	−0.494	1.294	+0.822	1.044	+0.299
a, *a′*	+2.7	−5.3	+2.4	−5.7	+4.1	−5.8	+3.5	−6.4
b, *b′*	0.00	−0.96	+0.01	−0.96	−0.02	−0.96	−0.01	−0.95

Tag		278) π Puppis AR.		278) π Puppis Dekl.		279) δ Geminorum AR.		279) δ Geminorum Dekl.		281) δ Volantis AR.		281) δ Volantis Dekl.		280) 19 Lyncis *sq* AR.		280) 19 Lyncis *sq* Dekl.	
1940		$7^h\ 15^m$		$-36°\ 59'$		$7^h\ 16^m$		$+22°\ 5'$		$7^h\ 16^m$		$-67°\ 50'$		$7^h\ 17^m$		$+55°\ 23'$	
		s		″		s		″		s		″		s		″	
Jan.	1	3.524	83	27.34	328	34.368	132	28.09	20	55.97	3	57.11	378	61.538	188	34.78	179
	10*)	[10] 3.607	24	30.62	316	[10] 34.500	79	27.89	5	[10] 56.00	8	60.89	370	[11] 61.726	105	36.57	192
	20	3.631	33	33.78	293	34.579	25	27.84	9	55.92	20	64.59	350	61.831	19	38.49	196
	30	3.598	89	36.71	264	34.604	28	27.93	19	55.72	30	68.09	322	61.850	64	40.45	193
Febr.	9	3.509	139	39.35	230	34.576	77	28.12	28	55.42	39	71.31	286	61.786	141	42.38	180
	19	3.370	181	41.65	191	34.499	119	28.40	32	55.03	46	74.17	244	61.645	209	44.18	160
	29	3.189	215	43.56	148	34.380	154	28.72	33	54.57	53	76.61	197	61.436	264	45.78	134
März	10	2.974	238	45.04	104	34.226	176	29.05	32	54.04	58	78.58	147	61.172	302	47.12	101
	20	2.736	251	46.08	58	34.050	189	29.37	28	53.46	60	80.05	94	60.870	324	48.13	65
	30	2.485	252	46.66	13	33.861	191	29.65	23	52.86	60	80.99	41	60.546	329	48.78	26
Apr.	9	2.233	243	46.79	32	33.670	182	29.88	17	52.26	60	81.40	13	60.217	317	49.04	12
	19	1.990	227	46.47	76	33.488	163	30.05	10	51.66	58	81.27	66	59.900	290	48.92	49
	29	1.763	201	45.71	118	33.325	137	30.15	5	51.08	53	80.61	117	59.610	251	48.43	85
Mai	9	1.562	169	44.53	157	33.188	105	30.20	1	50.55	47	79.44	165	59.359	201	47.58	115
	19	1.393	133	42.96	192	33.083	68	30.21	3	50.08	41	77.79	208	59.158	144	46.43	142
	29	1.260	92	41.04	223	33.015	30	30.18	6	49.67	34	75.71	248	59.014	82	45.01	163
Juni	8	1.168	51	38.81	247	32.985	9	30.12	8	49.33	25	73.23	279	58.932	18	43.38	179
	18	1.117	7	36.34	265	32.994	49	30.04	9	49.08	16	70.44	304	58.914	47	41.59	191
	28	1.110	37	33.69	277	33.043	86	29.95	11	48.92	7	67.40	321	58.961	109	39.68	197
Juli	8	1.147	80	30.92	280	33.129	122	29.84	12	48.85	2	64.19	328	59.070	170	37.71	198
	18	1.227	120	28.12	274	33.251	154	29.72	14	48.87	12	60.91	326	59.240	225	35.73	196
	28	1.347	160	25.38	260	33.405	184	29.58	18	48.99	22	57.65	313	59.465	277	33.77	189
Aug.	7	1.507	196	22.78	237	33.589	211	29.40	22	49.21	31	54.52	291	59.742	323	31.88	180
	17	1.703	229	20.41	206	33.800	235	29.18	29	49.52	39	51.61	258	60.065	365	30.08	166
	27	1.932	259	18.35	166	34.035	256	28.89	36	49.91	46	49.03	214	60.430	400	28.42	151
Sept.	6	2.191	285	16.69	118	34.291	274	28.53	45	50.37	53	46.89	164	60.830	432	26.91	133
	16	2.476	305	15.51	66	34.565	289	28.08	53	50.90	57	45.25	106	61.262	457	25.58	112
	26	2.781	320	14.85	10	34.854	302	27.55	62	51.47	61	44.19	43	61.719	476	24.46	89
Okt.	6	3.101	330	14.75	48	35.156	312	26.93	69	52.08	63	43.76	23	62.195	489	23.57	63
	16	3.431	332	15.23	106	35.468	316	26.24	75	52.71	62	43.99	90	62.684	495	22.94	36
	26	3.763	326	16.29	162	35.784	316	25.49	77	53.33	59	44.89	155	63.179	492	22.58	6
Nov.	5	4.089	312	17.91	211	36.100	310	24.72	77	53.92	56	46.44	214	63.671	479	22.52	26
	15	4.401	290	20.02	254	36.410	296	23.95	73	54.48	49	48.58	267	64.150	454	22.78	58
	25	4.691	258	22.56	288	36.706	274	23.22	66	54.97	41	51.25	311	64.604	417	23.36	90
Dez.	5	4.949	218	25.44	312	36.980	244	22.56	55	55.38	32	54.36	344	65.021	368	24.26	120
	15	5.167	170	28.56	327	37.224	207	22.01	41	55.70	22	57.80	366	65.389	308	25.46	147
	25	5.337	117	31.83	328	37.431	162	21.60	27	55.92	10	61.46	375	65.697	236	26.93	171
	35	5.454		35.11		37.593		21.33		56.02		65.21		65.933		28.64	
Mittl. Ort		1.366		18.98		32.434		40.17		51.94		50.62		58.696		48.14	
sec δ, tg δ		1.252		−0.753		1.079		+0.406		2.652		−2.456		1.761		+1.449	
a, *a′*		+2.1		−6.4		+3.6		−6.6		0.0		−6.6		+4.9		−6.7	
b, *b′*		+0.02		−0.95		−0.01		−0.94		+0.05		−0.94		−0.03		−0.94	

*) Bei Stern 280) lies Jan. 11.

Scheinbare Sternörter 1940

Tag	282) ι Geminorum AR.		Dekl.		285) β Canis min. AR.		Dekl.		284) Grb 1308 Caml AR.		Dekl.		286) ρ Geminorum AR.		Dekl.	
1940	$7^h\ 22^m$		+27° 54′		$7^h\ 23^m$		+8° 24′		$7^h\ 24^m$		+68° 34′		$7^h\ 25^m$		+31° 53′	
	s		"		s		"		s		"		s		"	
Jan. 1	2.098	144	55.94	15	55.648	127	30.88	107	43.31	27	73.96	240	17.291	153	66.91	39
11	$_{12}$2.242	88	56.09	30	$_{12}$55.775	78	29.81	92	$_{12}$43.58	13	76.36	254	$_{12}$17.444	95	67.30	56
20	2.330	32	56.39	43	55.853	27	28.89	75	43.71	1	78.90	256	17.539	36	67.86	67
30	2.362	24	56.82	53	55.880	23	28.14	58	43.72	11	81.46	249	17.575	21	68.53	76
Febr. 9	2.338	76	57.35	57	55.857	69	27.56	41	43.61	23	83.95	231	17.554	76	69.29	79
19	2.262	121	57.92	58	55.788	110	27.15	27	43.38	34	86.26	205	17.478	124	70.08	76
29	2.141	158	58.50	55	55.678	141	26.88	13	43.04	42	88.31	168	17.354	162	70.84	71
März 10	1.983	183	59.05	48	55.537	164	26.75	1	42.62	49	89.99	127	17.192	189	71.55	60
20	1.800	198	59.53	39	55.373	177	26.74	9	42.13	52	91.26	81	17.003	205	72.15	47
30	1.602	200	59.92	27	55.196	178	26.83	18	41.61	53	92.07	31	16.798	208	72.62	32
Apr. 9	1.402	192	60.19	15	55.018	171	27.01	26	41.08	52	92.38	18	16.590	200	72.94	15
19	1.210	173	60.34	3	54.847	156	27.27	34	40.56	49	92.20	65	16.390	182	73.09	1
29	1.037	147	60.37	8	54.691	133	27.61	40	40.07	43	91.55	110	16.208	156	73.08	16
Mai 9	0.890	115	60.29	18	54.558	103	28.01	47	39.64	36	90.45	149	16.052	122	72.92	30
19	0.775	77	60.11	27	54.455	71	28.48	53	39.28	28	88.96	184	15.930	83	72.62	42
29	0.698	37	59.84	34	54.384	36	29.01	59	39.00	18	87.12	212	15.847	42	72.20	52
Juni 8	0.661	4	59.50	39	54.348	0	29.60	63	38.82	9	85.00	235	15.805	0	71.68	59
18	0.665	44	59.11	43	54.348	36	30.23	66	38.73	1	82.65	249	15.805	42	71.09	65
28	0.709	84	58.68	46	54.384	71	30.89	67	38.74	11	80.16	258	15.847	84	70.44	68
Juli 8	0.793	122	58.22	48	54.455	103	31.56	66	38.85	21	77.58	260	15.931	122	69.76	72
18	0.915	155	57.74	50	54.558	135	32.22	62	39.06	30	74.98	256	16.053	158	69.04	74
28	1.070	188	57.24	53	54.693	162	32.84	55	39.36	38	72.42	247	16.211	192	68.30	75
Aug. 7	1.258	216	56.71	55	54.855	188	33.39	45	39.74	46	69.95	234	16.403	221	67.55	77
17	1.474	241	56.16	58	55.043	212	33.84	30	40.20	53	67.61	215	16.624	249	66.78	78
27	1.715	264	55.58	63	55.255	233	34.14	14	40.73	59	65.46	192	16.873	272	66.00	78
Sept. 6	1.979	284	54.95	65	55.488	250	34.28	6	41.32	64	63.54	166	17.145	293	65.22	79
16	2.263	300	54.30	69	55.738	267	34.22	27	41.96	68	61.88	136	17.438	312	64.43	80
26	2.563	315	53.61	73	56.005	280	33.95	49	42.64	71	60.52	104	17.750	326	63.63	78
Okt. 6	2.878	325	52.88	73	56.285	290	33.46	71	43.35	74	59.48	67	18.076	338	62.85	76
16	3.203	331	52.15	73	56.575	296	32.75	90	44.09	74	58.81	28	18.414	344	62.09	72
26	3.534	332	51.42	70	56.871	297	31.85	108	44.83	74	58.53	12	18.758	346	61.37	63
Nov. 5	3.866	326	50.72	64	57.168	291	30.77	121	45.57	71	58.65	53	19.104	340	60.74	54
15	4.192	312	50.08	54	57.459	279	29.56	130	46.28	68	59.18	95	19.444	326	60.20	40
25	4.504	291	49.54	41	57.738	260	28.26	133	46.96	62	60.13	135	19.770	304	59.80	24
Dez. 5	4.795	260	49.13	26	57.998	233	26.93	131	47.58	54	61.48	172	20.074	273	59.56	6
15	5.055	222	48.87	10	58.231	197	25.62	124	48.12	45	63.20	205	20.347	233	59.50	12
25	5.277	175	48.77	7	58.428	155	24.38	113	48.57	34	65.25	231	20.580	185	59.62	32
35	5.452		48.84		58.583		23.25		48.91		67.56		20.765		59.94	
Mittl. Ort	0.109		68.52		53.819		42.29		39.22		87.99		15.251		79.85	
sec δ, tg δ	1.132		+0.530		1.011		+0.148		2.740		+2.551		1.178		+0.623	
a, *a′*	+3.7		−7.0		+3.3		−7.2		+6.3		−7.2		+3.8		−7.3	
b, *b′*	−0.01		−0.94		0.00		−0.93		−0.06		−0.93		−0.02		−0.93	

Tag	287) α Geminorum¹) AR.		Dekl.		289) 25 Monocerotis AR.		Dekl.		291) α Canis min.²) AR.		Dekl.		292) 24 Lyncis AR.		Dekl.	
1940	7h 30m		+32° 0′		7h 34m		−3° 58′		7h 36m		+5° 22′		7h 37m		+58° 50′	
Jan. 1	48.422 s	158	65.93 "	37	19.468 s	127	42.84 "	183	11.548 s	131	36.32 "	131	59.359 s	234	56.05 "	189
11	48.580	101	66.30	55	19.595	80	44.67	168	11.679	83	35.01	116	59.593	145	57.94	205
20	[14] 48.681	41	66.85	67	[15] 19.675	29	46.35	150	[15] 11.762	33	33.85	97	[16] 59.738	51	59.99	215
30	48.722	16	67.52	75	19.704	20	47.85	128	11.795	18	32.88	79	59.789	41	62.14	214
Febr. 9	48.706	71	68.27	80	19.684	66	49.13	105	11.777	64	32.09	59	59.748	128	64.28	205
19	48.635	120	69.07	79	19.618	107	50.18	83	11.713	105	31.50	42	59.620	206	66.33	186
29	48.515	160	69.86	73	19.511	138	51.01	59	11.608	137	31.08	25	59.414	271	68.19	160
März 10	48.355	187	70.59	63	19.373	161	51.60	36	11.471	161	30.83	10	59.143	318	69.79	128
20	48.168	204	71.22	50	19.212	176	51.96	14	11.310	175	30.73	3	58.825	350	71.07	90
30	47.964	209	71.72	34	19.036	179	52.10	7	11.135	178	30.76	15	58.475	362	71.97	49
Apr. 9	47.755	201	72.06	18	18.857	174	52.03	26	10.957	173	30.91	26	58.113	355	72.46	7
19	47.554	185	72.24	1	18.683	160	51.77	46	10.784	158	31.17	35	57.758	334	72.53	34
29	47.369	159	72.25	14	18.523	139	51.31	64	10.626	136	31.52	45	57.424	297	72.19	73
Mai 9	47.210	126	72.11	29	18.384	113	50.67	81	10.490	109	31.97	53	57.127	248	71.46	109
19	47.084	89	71.82	41	18.271	82	49.86	96	10.381	78	32.50	62	56.879	191	70.37	141
29	46.995	48	71.41	51	18.189	50	48.90	109	10.303	45	33.12	68	56.688	128	68.96	167
Juni 8	46.947	6	70.90	60	18.139	15	47.81	120	10.258	9	33.80	73	56.560	60	67.29	189
18	46.941	36	70.30	67	18.124	19	46.61	128	10.249	26	34.53	77	56.500	9	65.40	204
28	46.977	76	69.63	71	18.143	52	45.33	132	10.275	59	35.30	78	56.509	77	63.36	215
Juli 8	47.053	116	68.92	75	18.195	86	44.01	133	10.334	92	36.08	77	56.586	143	61.21	221
18	47.169	152	68.17	77	18.281	116	42.68	128	10.426	123	36.85	72	56.729	205	59.00	221
28	47.321	185	67.40	80	18.397	145	41.40	119	10.549	151	37.57	63	56.934	264	56.79	217
Aug. 7	47.506	215	66.60	81	18.542	172	40.21	104	10.700	178	38.20	53	57.198	318	54.62	210
17	47.721	243	65.79	83	18.714	196	39.17	86	10.878	201	38.73	37	57.516	367	52.52	198
27	47.964	268	64.96	84	18.910	219	38.31	61	11.079	223	39.10	18	57.883	410	50.54	183
Sept. 6	48.232	289	64.12	85	19.129	239	37.70	33	11.302	242	39.28	4	58.293	448	48.71	164
16	48.521	309	63.27	85	19.368	256	37.37	2	11.544	259	39.24	28	58.741	481	47.07	142
26	48.830	324	62.42	85	19.624	272	37.35	32	11.803	274	38.96	53	59.222	508	45.65	118
Okt. 6	49.154	336	61.57	82	19.896	283	37.67	65	12.077	285	38.43	77	59.730	527	44.47	91
16	49.490	344	60.75	77	20.179	290	38.32	97	12.362	292	37.66	100	60.257	538	43.56	59
26	49.834	346	59.98	69	20.469	293	39.29	127	12.654	294	36.66	120	60.795	541	42.97	26
Nov. 5	50.180	342	59.29	59	20.762	287	40.56	153	12.948	290	35.46	137	61.336	531	42.71	9
15	50.522	329	58.70	45	21.049	277	42.09	173	13.238	280	34.09	147	61.867	509	42.80	45
25	50.851	307	58.25	29	21.326	258	43.82	187	13.518	261	32.62	154	62.376	474	43.25	82
Dez. 5	51.158	278	57.96	10	21.584	231	45.69	193	13.779	235	31.08	154	62.850	424	44.07	117
15	51.436	238	57.86	9	21.815	196	47.62	194	14.014	200	29.54	148	63.274	361	45.24	150
25	51.674	190	57.95	28	22.011	156	49.56	187	14.214	159	28.06	137	63.635	286	46.74	177
35	51.864		58.23		22.167		51.43		14.373		26.69		63.921		48.51	
Mittl. Ort	46.398		79.12		17.659		32.44		9.742		47.67		56.429		70.91	
sec δ, tg δ	1.179		+0.625		1.002		−0.069		1.004		+0.094		1.933		+1.655	
a, *a′*	+3.8		−7.7		+3.0		−8.0		+3.2		−8.2		+5.1		−8.3	
b, *b′*	−0.02		−0.92		0.00		−0.92		0.00		−0.91		−0.05		−0.91	

¹) Ort des helleren Sterns.

²) Ort des hellen Sterns; die jährliche Parallaxe (0″312) ist bereits berücksichtigt.

Scheinbare Sternörter 1940

Tag	294) κ Geminorum AR.		294) κ Geminorum Dekl.		295) β Geminorum[1]) AR.		295) β Geminorum[1]) Dekl.	
1940	7h 40m		+24° 32′		7h 41m		+28° 10′	
	s		"		s		"	
Jan. 1	51.530	160	23.69	12	40.736	163	8.50	10
11	51.690	106	23.57	5	^{17}40.899	107	8.60	28
20	^{16}51.796	51	23.62	21	41.006	51	8.88	43
30	51.847	5	23.83	34	41.057	7	9.31	55
Febr. 9	51.842	56	24.17	44	41.050	60	9.86	64
19	51.786	102	24.61	49	40.990	107	10.50	66
29	51.684	141	25.10	50	40.883	146	11.16	64
März 10	51.543	168	25.60	48	40.737	176	11.80	59
20	51.375	185	26.08	43	40.561	193	12.39	50
30	51.190	191	26.51	36	40.368	199	12.89	39
Apr. 9	50.999	186	26.87	27	40.169	194	13.28	26
19	50.813	172	27.14	18	39.975	179	13.54	14
29	50.641	150	27.32	8	39.796	156	13.68	0
Mai 9	50.491	120	27.40	0	39.640	127	13.68	11
19	50.371	87	27.40	8	39.513	91	13.57	22
29	50.284	51	27.32	15	39.422	54	13.35	32
Juni 8	50.233	12	27.17	20	39.368	14	13.03	39
18	50.221	26	26.97	25	39.354	25	12.64	45
28	50.247	64	26.72	29	39.379	64	12.19	50
Juli 8	50.311	99	26.43	33	39.443	101	11.69	55
18	50.410	132	26.10	37	39.544	136	11.14	59
28	50.542	164	25.73	42	39.680	167	10.55	63
Aug. 7	50.706	193	25.31	47	39.847	198	9.92	67
17	50.899	219	24.84	53	40.045	225	9.25	71
27	51.118	242	24.31	61	40.270	249	8.54	76
Sept. 6	51.360	265	23.70	68	40.519	272	7.78	81
16	51.625	283	23.02	75	40.791	291	6.97	85
26	51.908	300	22.27	82	41.082	308	6.12	88
Okt. 6	52.208	314	21.45	87	41.390	321	5.24	90
16	52.522	322	20.58	91	41.711	331	4.34	89
26	52.844	327	19.67	91	42.042	335	3.45	85
Nov. 5	53.171	324	18.76	87	42.377	332	2.60	79
15	53.495	314	17.89	81	42.709	322	1.81	68
25	53.809	296	17.08	70	43.031	303	1.13	54
Dez. 5	54.105	269	16.38	56	43.334	275	0.59	37
15	54.374	234	15.82	39	43.609	238	0.22	19
25	54.608	189	15.43	22	43.847	193	0.03	1
35	54.797		15.21		44.040		0.04	
Mittl. Ort	49.637		36.73		38.802		21.84	
sec δ, tg δ	1.099		+0.457		1.134		+0.536	
a, *a′*	+3.6		−8.5		+3.7		−8.6	
b, *b′*	−0.01		−0.90		−0.02		−0.90	

Tag	297) ζ Volantis AR.		297) ζ Volantis Dekl.		296) π Geminorum AR.		296) π Geminorum Dekl.	
1940	7h 42m		−72° 27′		7h 43m		+33° 33′	
	s		"		s		"	
Jan. 1	39.33	10	48.20	380	40.444	175	38.95	42
11	^{17}39.43	5	52.00	378	^{17}40.619	117	39.37	61
20	39.38	18	55.78	365	40.736	57	39.98	76
30	39.20	32	59.43	344	40.793	3	40.74	86
Febr. 9	38.88	44	62.87	314	40.790	59	41.60	91
19	38.44	53	66.01	277	40.731	110	42.51	91
29	37.91	63	68.78	234	40.621	152	43.42	85
März 10	37.28	69	71.12	187	40.469	183	44.27	75
20	36.59	74	72.99	136	40.286	203	45.02	61
30	35.85	75	74.35	84	40.083	210	45.63	45
Apr. 9	35.10	75	75.19	30	39.873	206	46.08	27
19	34.35	74	75.49	23	39.667	191	46.35	8
29	33.61	71	75.26	76	39.476	167	46.43	10
Mai 9	32.90	65	74.50	126	39.309	136	46.33	27
19	32.25	58	73.24	174	39.173	100	46.06	42
29	31.67	49	71.50	216	39.073	61	45.64	54
Juni 8	31.18	40	69.34	254	39.012	19	45.10	66
18	30.78	30	66.80	284	38.993	23	44.44	74
28	30.48	19	63.96	307	39.016	64	43.70	81
Juli 8	30.29	7	60.89	321	39.080	103	42.89	87
18	30.22	6	57.68	325	39.183	140	42.02	90
28	30.28	17	54.43	319	39.323	174	41.12	94
Aug. 7	30.45	30	51.24	304	39.497	206	40.18	96
17	30.75	40	48.20	277	39.703	236	39.22	98
27	31.15	51	45.43	240	39.939	261	38.24	99
Sept. 6	31.66	60	43.03	194	40.200	286	37.25	100
16	32.26	67	41.09	139	40.486	307	36.25	100
26	32.93	73	39.70	80	40.793	324	35.25	98
Okt. 6	33.66	76	38.90	14	41.117	340	34.27	94
16	34.42	78	38.76	53	41.457	350	33.33	88
26	35.20	75	39.29	118	41.807	354	32.45	78
Nov. 5	35.95	71	40.47	181	42.161	351	31.67	66
15	36.66	65	42.28	239	42.512	342	31.01	51
25	37.31	56	44.67	287	42.854	322	30.50	32
Dez. 5	37.87	44	47.54	326	43.176	293	30.18	11
15	38.31	32	50.80	356	43.469	254	30.07	11
25	38.63	19	54.36	372	43.723	207	30.18	32
35	38.82		58.08		43.930		30.50	
Mittl. Ort	34.31		44.08		38.443		52.79	
sec δ, tg δ	3.319		−3.164		1.200		+0.664	
a, *a′*	−0.7		−8.7		+3.9		−8.8	
b, *b′*	+0.09		−0.90		−0.02		−0.90	

[1]) Die jährliche Parallaxe (0."101) ist bereits berücksichtigt.

Tag	300) Grb 1374 Caml				303) χ Carinae				305) χ Geminorum				306) ζ Puppis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$7^h 53^m$		$+74° 4'$		$7^h 55^m$		$-52° 49'$		$7^h 59^m$		$+27° 57'$		$8^h 1^m$		$-39° 49'$	
Jan. 1	8.02	42	36.59	251	17.884	130	18.61	371	52.007	184	36.85	1	30.678	140	64.75	343
11	[20] 8.44	25	39.10	269	[20] 18.014	56	22.32	368	52.191	129	36.86	21	30.818	81	68.18	338
20*)	8.69	9	41.79	279	18.070	19	26.00	355	[21] 52.320	73	37.07	40	[22] 30.899	19	71.56	324
30	8.78	8	44.58	277	18.051	91	29.55	332	52.393	15	37.47	54	30.918	41	74.80	301
Febr. 9	8.70	24	47.35	264	17.960	158	32.87	302	52.408	39	38.01	65	30.877	97	77.81	271
19	8.46	39	49.99	241	17.802	216	35.89	265	52.369	89	38.66	70	30.780	146	80.52	237
29	8.07	51	52.40	207	17.586	266	38.54	224	52.280	130	39.36	70	30.634	187	82.89	197
März 10	7.56	61	54.47	166	17.320	302	40.78	177	52.150	162	40.06	68	30.447	219	84.86	155
20	6.95	68	56.13	118	17.018	328	42.55	129	51.988	183	40.74	60	30.228	240	86.41	110
30	6.27	71	57.31	67	16.690	340	43.84	78	51.805	193	41.34	50	29.988	251	87.51	65
Apr. 9	5.56	72	57.98	15	16.350	341	44.62	26	51.612	192	41.84	37	29.737	252	88.16	18
19	4.84	69	58.13	38	16.009	331	44.88	25	51.420	181	42.21	24	29.485	243	88.34	28
29	4.15	63	57.75	89	15.678	312	44.63	74	51.239	161	42.45	11	29.242	226	88.06	72
Mai 9	3.52	56	56.86	135	15.366	282	43.89	122	51.078	134	42.56	3	29.016	202	87.34	115
19	2.96	46	55.51	177	15.084	246	42.67	167	50.944	103	42.53	14	28.814	172	86.19	154
29	2.50	36	53.74	212	14.838	204	41.00	208	50.841	67	42.39	25	28.642	138	84.65	190
Juni 8	2.14	23	51.62	241	14.634	156	38.92	243	50.774	30	42.14	35	28.504	100	82.75	221
18	1.91	10	49.21	264	14.478	105	36.49	271	50.744	7	41.79	43	28.404	61	80.54	246
28	1.81	2	46.57	278	14.373	52	33.78	293	50.751	45	41.36	50	28.343	19	78.08	264
Juli 8	1.83	15	43.79	287	14.321	4	30.85	305	50.796	82	40.86	57	28.324	24	75.44	275
18	1.98	28	40.92	289	14.325	61	27.80	309	50.878	116	40.29	63	28.348	66	72.69	278
28	2.26	39	38.03	284	14.386	116	24.71	303	50.994	148	39.66	69	28.414	108	69.91	270
Aug. 7	2.65	50	35.19	274	14.502	171	21.68	288	51.142	180	38.97	75	28.522	148	67.21	255
17	3.15	60	32.45	258	14.673	223	18.80	261	51.322	207	38.22	80	28.670	188	64.66	231
27	3.75	70	29.87	238	14.896	272	16.19	225	51.529	234	37.42	87	28.858	225	62.35	196
Sept. 6	4.45	77	27.49	211	15.168	316	13.94	181	51.763	259	36.55	92	29.083	258	60.39	155
16	5.22	85	25.38	182	15.484	355	12.13	128	52.022	281	35.63	98	29.341	289	58.84	105
26	6.07	90	23.56	146	15.839	386	10.85	69	52.303	300	34.65	102	29.630	315	57.79	51
Okt. 6	6.97	94	22.10	108	16.225	408	10.16	6	52.603	317	33.63	105	29.945	334	57.28	7
16	7.91	96	21.02	67	16.633	420	10.10	58	52.920	330	32.58	104	30.279	346	57.35	67
26	8.87	97	20.35	22	17.053	421	10.68	122	53.250	338	31.54	102	30.625	351	58.02	125
Nov. 5	9.84	95	20.13	24	17.474	409	11.90	183	53.588	338	30.52	94	30.976	346	59.27	180
15	10.79	92	20.37	72	17.883	385	13.73	238	53.926	331	29.58	83	31.322	331	61.07	230
25	11.71	85	21.09	118	18.268	348	16.11	284	54.257	316	28.75	69	31.653	306	63.37	271
Dez. 5	12.56	76	22.27	163	18.616	299	18.95	322	54.573	291	28.06	51	31.959	271	66.08	304
15	13.32	65	23.90	202	18.915	241	22.17	349	54.864	257	27.55	31	32.230	226	69.12	326
25	13.97	51	25.92	235	19.156	174	25.66	364	55.121	213	27.24	10	32.456	175	72.38	338
35	14.48		28.27		19.330		29.30		55.334		27.14		32.631		75.76	
Mittl. Ort	3.19		52.87		15.148		14.07		50.144		50.79		28.445		59.27	
sec δ, tg δ	3.646		+3.506		1.655		−1.318		1.132		+0.531		1.302		−0.834	
a, *a'*	+7.2		−9.5		+1.5		−9.7		+3.7		−10.0		+2.1		−10.1	
b, *b'*	−0.11		−0.88		+0.04		−0.88		−0.02		−0.87		+0.03		−0.86	

*) Bei Stern 305) und 306) lies Jan. 21.

Scheinbare Sternörter 1940

Tag	307) 27 Lyncis AR.	Δ	307) 27 Lyncis Dekl.	Δ	308) ρ Puppis AR.	Δ	308) ρ Puppis Dekl.	Δ	309) γ Velorum AR.	Δ	309) γ Velorum Dekl.	Δ	311) 20 Puppis AR.	Δ	311) 20 Puppis Dekl.	Δ
1940	8h 3m		+51° 40′		8h 4m		−24° 7′		8h 7m		−47° 9′		8h 10m		−15° 36′	
	s		″		s		″		s		″		s		″	
Jan. 1	59.508	244	37.25	138	61.193	148	55.84	288	43.433	149	36.40	361	36.260	157	30.87	251
11	59.752	171	38.63	161	61.341	96	58.72	280	43.582	83	40.01	358	36.417	108	33.38	240
21	59.923	93	40.24	177	61.437	43	61.52	263	43.665	15	43.59	347	36.525	56	35.78	223
30	[22] 60.016	13	42.01	186	[23] 61.480	10	64.15	240	[23] 43.680	52	47.06	326	[24] 36.581	5	38.01	201
Febr. 9	60.029	63	43.87	186	61.470	60	66.55	213	43.628	113	50.32	297	36.586	43	40.02	175
19	59.966	133	45.73	177	61.410	104	68.68	181	43.515	168	53.29	263	36.543	87	41.77	147
29	59.833	193	47.50	161	61.306	141	70.49	148	43.347	215	55.92	223	36.456	124	43.24	117
März 10	59.640	238	49.11	137	61.165	170	71.97	112	43.132	250	58.15	179	36.332	152	44.41	86
20	59.402	271	50.48	109	60.995	189	73.09	75	42.882	275	59.94	132	36.180	171	45.27	56
30	59.131	287	51.57	75	60.806	197	73.84	38	42.607	289	61.26	84	36.009	181	45.83	24
Apr. 9	58.844	289	52.32	40	60.609	198	74.22	2	42.318	291	62.10	35	35.828	181	46.07	5
19	58.555	277	52.72	4	60.411	190	74.24	34	42.027	284	62.45	14	35.647	173	46.02	34
29	58.278	252	52.76	31	60.221	174	73.90	69	41.743	268	62.31	63	35.474	159	45.68	63
Mai 9	58.026	217	52.45	65	60.047	152	73.21	101	41.475	245	61.68	109	35.315	138	45.05	88
19	57.809	173	51.80	96	59.895	126	72.20	132	41.230	213	60.59	152	35.177	113	44.17	113
29	57.636	125	50.84	122	59.769	96	70.88	159	41.017	176	59.07	192	35.064	84	43.04	133
Juni 8	57.511	73	49.62	146	59.673	63	69.29	182	40.841	137	57.15	226	34.980	53	41.71	152
18	57.438	18	48.16	164	59.610	29	67.47	200	40.704	92	54.89	255	34.927	21	40.19	167
28	57.420	37	46.52	179	59.581	6	65.47	213	40.612	46	52.34	277	34.906	11	38.52	176
Juli 8	57.457	90	44.73	189	59.587	41	63.34	220	40.566	2	49.57	290	34.917	43	36.76	181
18	57.547	141	42.84	195	59.628	74	61.14	219	40.568	50	46.67	295	34.960	75	34.95	180
28	57.688	190	40.89	198	59.702	108	58.95	212	40.618	99	43.72	291	35.035	107	33.15	171
Aug. 7	57.878	236	38.91	197	59.810	141	56.83	197	40.717	147	40.81	277	35.142	136	31.44	158
17	58.114	278	36.94	193	59.951	171	54.86	175	40.864	193	38.04	253	35.278	165	29.86	137
27	58.392	317	35.01	185	60.122	201	53.11	144	41.057	236	35.51	220	35.443	192	28.49	110
Sept. 6	58.709	353	33.16	175	60.323	228	51.67	107	41.293	277	33.31	177	35.635	218	27.39	77
16	59.062	384	31.41	161	60.551	253	50.60	64	41.570	314	31.54	127	35.853	242	26.62	40
26	59.446	413	29.80	144	60.804	275	49.96	19	41.884	343	30.27	71	36.095	263	26.22	1
Okt. 6	59.859	435	28.36	124	61.079	293	49.77	31	42.227	367	29.56	11	36.358	281	26.23	45
16	60.294	452	27.12	101	61.372	305	50.08	81	42.594	381	29.45	52	36.639	294	26.68	87
26	60.746	462	26.11	73	61.677	311	50.89	129	42.975	386	29.97	115	36.933	301	27.55	129
Nov. 5	61.208	461	25.38	43	61.988	310	52.18	174	43.361	381	31.12	173	37.234	303	28.84	166
15	61.669	451	24.95	11	62.298	301	53.92	212	43.742	364	32.85	227	37.537	296	30.50	198
25	62.120	428	24.84	23	62.599	282	56.04	244	44.106	335	35.12	274	37.833	281	32.48	223
Dez. 5	62.548	393	25.07	59	62.881	255	58.48	268	44.441	295	37.86	311	38.114	256	34.71	241
15	62.941	346	25.66	93	63.136	220	61.16	281	44.736	246	40.97	337	38.370	224	37.12	251
25	63.287	286	26.59	123	63.356	177	63.97	287	44.982	187	44.34	353	38.594	184	39.63	252
35	63.573		27.82		63.533		66.84		45.169		47.87		38.778		42.15	
Mittl. Ort	57.146		53.41		59.271		48.57		40.960		32.15		34.441		22.60	
sec δ, tg δ	1.613		+1.265		1.096		−0.448		1.471		−1.078		1.038		−0.279	
a, *a′*	+4.5		−10.3		+2.6		−10.4		+1.9		−10.6		+2.8		−10.8	
b, *b′*	−0.04		− 0.86		+0.02		− 0.86		+0.04		− 0.85		+0.01		− 0.84	

Tag	310) Br 1147 Caml				312) β Cancri				314) 31 Lyncis				315) ε Carinae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$8^h\ 12^m$		+75° 56′		$8^h\ 13^m$		+9° 21′		$8^h\ 18^m$		+43° 22′		$8^h\ 21^m$		−59° 18′	
Jan. 1	8.42	53	17.84	245	17.453	174	66.68	117	46.087	236	39.79	84	20.202	183	58.89	376
11	8.95	35	20.29	270	17.627	127	65.51	100	46.323	173	40.63	108	20.385	97	62.65	381
21	[24] 9.30	16	22.99	284	[25] 17.754	76	64.51	79	[26] 46.496	106	41.71	129	[27] 20.482	9	66.46	374
30	9.46	3	25.83	287	17.830	24	63.72	59	46.602	37	43.00	143	20.491	75	70.20	358
Febr. 9	9.43	21	28.70	279	17.854	25	63.13	40	46.639	29	44.43	150	20.416	155	73.78	334
19	9.22	38	31.49	258	17.829	70	62.73	23	46.610	92	45.93	149	20.261	226	77.12	301
29	8.84	53	34.07	228	17.759	108	62.50	7	46.518	145	47.42	141	20.035	287	80.13	263
März 10	8.31	65	36.35	189	17.651	138	62.43	6	46.373	186	48.83	126	19.748	336	82.76	219
20	7.66	74	38.24	143	17.513	158	62.49	16	46.187	217	50.09	107	19.412	372	84.95	172
30	6.92	80	39.67	92	17.355	168	62.65	26	45.970	234	51.16	82	19.040	395	86.67	122
Apr. 9	6.12	81	40.59	38	17.187	168	62.91	32	45.736	238	51.98	55	18.645	404	87.89	69
19	5.31	79	40.97	16	17.019	161	63.23	38	45.498	230	52.53	26	18.241	401	88.58	18
29	4.52	75	40.81	68	16.858	145	63.61	42	45.268	212	52.79	3	17.840	387	88.76	35
Mai 9	3.77	68	40.13	118	16.713	124	64.03	46	45.056	184	52.76	31	17.453	363	88.41	87
19	3.09	58	38.95	163	16.589	98	64.49	49	44.872	149	52.45	58	17.090	328	87.54	134
29	2.51	46	37.32	203	16.491	69	64.98	52	44.723	110	51.87	81	16.762	287	86.20	180
Juni 8	2.05	34	35.29	236	16.422	37	65.50	53	44.613	67	51.06	102	16.475	237	84.40	221
18	1.71	20	32.93	262	16.385	5	66.03	54	44.546	23	50.04	119	16.238	183	82.19	255
28	1.51	6	30.31	282	16.380	27	66.57	52	44.523	21	48.85	135	16.055	123	79.64	282
Juli 8	1.45	9	27.49	294	16.407	58	67.09	49	44.544	66	47.50	147	15.932	60	76.82	302
18	1.54	22	24.55	301	16.465	89	67.58	44	44.610	109	46.03	155	15.872	7	73.80	313
28	1.76	36	21.54	300	16.554	118	68.02	35	44.719	150	44.48	162	15.879	73	70.67	313
Aug. 7	2.12	49	18.54	292	16.672	145	68.37	24	44.869	188	42.86	165	15.952	141	67.54	304
17	2.61	60	15.62	280	16.817	173	68.61	10	45.057	225	41.21	167	16.093	208	64.50	284
27	3.21	72	12.82	262	16.990	197	68.71	6	45.282	259	39.54	166	16.301	271	61.66	253
Sept. 6	3.93	82	10.20	237	17.187	221	68.65	25	45.541	291	37.88	163	16.572	330	59.13	213
16	4.75	90	7.83	208	17.408	243	68.40	46	45.832	320	36.25	157	16.902	383	57.00	164
26	5.65	97	5.75	175	17.651	263	67.94	67	46.152	348	34.68	148	17.285	427	55.36	107
Okt. 6	6.62	103	4.00	137	17.914	281	67.27	89	46.500	370	33.20	137	17.712	461	54.29	45
16	7.65	107	2.63	94	18.195	295	66.38	108	46.870	388	31.83	121	18.173	483	53.84	20
26	8.72	109	1.69	49	18.490	304	65.30	124	47.258	401	30.62	102	18.656	491	54.04	86
Nov. 5	9.81	107	1.20	1	18.794	306	64.06	138	47.659	404	29.60	80	19.147	485	54.90	150
15	10.88	105	1.19	49	19.100	303	62.68	146	48.063	400	28.80	54	19.632	462	56.40	210
25	11.93	98	1.68	99	19.403	290	61.22	148	48.463	384	28.26	24	20.094	424	58.50	263
Dez. 5	12.91	89	2.67	146	19.693	269	59.74	145	48.847	358	28.02	6	20.518	372	61.13	307
15	13.80	78	4.13	190	19.962	240	58.29	137	49.205	319	28.08	37	20.890	307	64.20	342
25	14.58	63	6.03	228	20.202	201	56.92	125	49.524	271	28.45	69	21.197	232	67.62	364
35	15.21		8.31		20.403		55.67		49.795		29.14		21.429		71.26	
Mittl. Ort	3.41		35.50		15.735		78.56		44.071		56.03		17.042		56.98	
sec δ, tg δ	4.117		+3.994		1.014		+0.165		1.376		+0.945		1.960		−1.685	
a, *a′*	+7.5		−10.9		+3.3		−11.0		+4.1		−11.4		+1.2		−11.6	
b, *b′*	−0.15		− 0.84		−0.01		− 0.84		−0.04		− 0.82		+0.06		− 0.82	

Scheinbare Sternörter 1940

Tag	318) ϑ Chamael.		316) Br 1197 Hydra		317) o Ursae maj.		320) Grb 1450 Lynx	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1940	$8^h\ 22^m$	$-77°\ 17'$	$8^h\ 22^m$	$-3°\ 42'$	$8^h\ 25^m$	$+60°\ 54'$	$8^h\ 29^m$	$+38°\ 12'$
	s	"	s	"	s	"	s	"
Jan. 1	35.57 28	30.02 371	41.455 174	43.94 193	20.38 33	56.69 171	3.139 234	69.22 48
11	35.85 8	33.73 381	41.629 127	45.87 179	20.71 24	58.40 200	3.373 176	69.70 74
21	35.93 10	37.54 380	41.756 77	47.66 161	20.95 14	60.40 220	3.549 113	70.44 96
30	[27] 35.83 29	41.34 369	[27] 41.833 26	49.27 139	[28] 21.09 4	62.60 231	[29] 3.662 50	71.40 113
Febr. 9	35.54 46	45.03 348	41.859 22	50.66 116	21.13 5	64.91 232	3.712 13	72.53 125
19	35.08 61	48.51 319	41.837 67	51.82 92	21.08 14	67.23 222	3.699 72	73.78 128
29	34.47 74	51.70 285	41.770 104	52.74 68	20.94 23	69.45 205	3.627 122	75.06 126
März 10	33.73 85	54.55 243	41.666 133	53.42 45	20.71 29	71.50 177	3.505 163	76.32 117
20	32.88 93	56.98 198	41.533 154	53.87 24	20.42 33	73.27 143	3.342 192	77.49 102
30	31.95 99	58.96 149	41.379 166	54.11 2	20.09 37	74.70 105	3.150 210	78.51 83
Apr. 9	30.96 102	60.45 97	41.213 167	54.13 17	19.72 38	75.75 62	2.940 215	79.34 62
19	29.94 102	61.42 44	41.046 161	53.96 35	19.34 37	76.37 17	2.725 209	79.96 38
29	28.92 101	61.86 10	40.885 149	53.61 52	18.97 35	76.54 26	2.516 194	80.34 13
Mai 9	27.91 96	61.76 64	40.736 129	53.09 68	18.62 31	76.28 68	2.322 171	80.47 11
19	26.95 89	61.12 114	40.607 105	52.41 83	18.31 26	75.60 107	2.151 141	80.36 34
29	26.06 81	59.98 162	40.502 79	51.58 95	18.05 21	74.53 142	2.010 105	80.02 56
Juni 8	25.25 70	58.36 206	40.423 49	50.63 105	17.84 15	73.11 173	1.905 67	79.46 75
18	24.55 58	56.30 245	40.374 19	49.58 113	17.69 8	71.38 199	1.838 28	78.71 92
28	23.97 43	53.85 277	40.355 11	48.45 118	17.61 2	69.39 219	1.810 12	77.79 106
Juli 8	23.54 29	51.08 300	40.366 42	47.27 118	17.59 6	67.20 234	1.822 52	76.73 119
18	23.25 12	48.08 315	40.408 72	46.09 116	17.65 12	64.86 245	1.874 91	75.54 129
28	23.13 4	44.93 321	40.480 101	44.93 107	17.77 18	62.41 249	1.965 129	74.25 137
Aug. 7	23.17 22	41.72 315	40.581 129	43.86 95	17.95 25	59.92 249	2.094 164	72.88 143
17	23.39 38	38.57 299	40.710 156	42.91 78	18.20 30	57.43 245	2.258 198	71.45 148
27	23.77 54	35.58 271	40.866 183	42.13 55	18.50 36	54.98 236	2.456 231	69.97 152
Sept. 6	24.31 69	32.87 235	41.049 208	41.58 29	18.86 40	52.62 222	2.687 261	68.45 152
16	25.00 81	30.52 188	41.257 231	41.29 1	19.26 46	50.40 204	2.948 290	66.93 152
26	25.81 92	28.64 134	41.488 253	41.30 32	19.72 49	48.36 182	3.238 316	65.41 148
Okt. 6	26.73 99	27.30 72	41.741 272	41.62 66	20.21 53	46.54 156	3.554 340	63.93 142
16	27.72 103	26.58 7	42.013 287	42.28 98	20.74 55	44.98 125	3.894 359	62.51 132
26	28.75 104	26.51 59	42.300 298	43.26 129	21.29 57	43.73 90	4.253 373	61.19 119
Nov. 5	29.79 101	27.10 125	42.598 301	44.55 155	21.86 58	42.83 52	4.626 379	60.00 101
15	30.80 95	28.35 187	42.899 298	46.10 177	22.44 56	42.31 12	5.005 377	58.99 79
25	31.75 85	30.22 243	43.197 286	47.87 192	23.00 55	42.19 32	5.382 366	58.20 55
Dez. 5	32.60 71	32.65 291	43.483 266	49.79 200	23.55 50	42.51 75	5.748 342	57.65 26
15	33.31 57	35.56 329	43.749 237	51.79 202	24.05 45	43.26 115	6.090 309	57.39 3
25	33.88 38	38.85 357	43.986 199	53.81 197	24.50 38	44.41 153	6.399 266	57.42 32
35	34.26	42.42	44.185	55.78	24.88	45.94	6.665	57.74
Mittl. Ort	28.79	29.66	39.740	34.12	17.74	74.65	1.280	85.31
sec δ, tg δ	4.546	−4.434	1.002	−0.065	2.058	+1.798	1.273	+0.788
a, *a'*	−1.7	−11.7	+3.0	−11.7	+5.0	−11.9	+3.9	−12.1
b, *b'*	+0.17	− 0.81	0.00	− 0.81	−0.07	− 0.81	−0.03	− 0.80

Tag		321) η Cancri AR.	Δ	321) η Cancri Dekl.	Δ	327) α Pyxidis AR.	Δ	327) α Pyxidis Dekl.	Δ	326) δ Cancri AR.	Δ	326) δ Cancri Dekl.	Δ	330) δ Velorum *m* AR.	Δ	330) δ Velorum *m* Dekl.	Δ
1940		$8^h\ 29^m$		$+20°\ 38'$		$8^h\ 41^m$		$-32°\ 58'$		$8^h\ 41^m$		$+18°\ 22'$		$8^h\ 43^m$		$-54°\ 29'$	
Jan.	1	$16^s.151$	201	$33''.10$	55	$12^s.798$	187	$13''.00$	321	$18^s.281$	210	$20''.53$	75	$5^s.591$	212	$17''.11$	367
	11	16.352	153	32.55	34	12.985	134	16.21	320	18.491	162	19.78	53	5.803	138	20.78	374
	21	16.505	99	32.21	12	13.119	78	19.41	309	18.653	110	19.25	30	5.941	61	24.52	372
	30*)	^{29}16.604	45	32.09	8	^{2}13.197	20	22.50	292	^{1}18.763	56	18.95	8	^{1}6.002	15	28.24	359
Febr.	9	16.649	8	32.17	24	13.217	34	25.42	267	18.819	4	18.87	10	5.987	88	31.83	338
	19	16.641	58	32.41	39	13.183	83	28.09	238	18.823	46	18.97	27	5.899	155	35.21	309
	29	16.583	100	32.80	47	13.100	127	30.47	203	18.777	88	19.24	38	5.744	213	38.30	273
März	10	16.483	133	33.27	53	12.973	162	32.50	166	18.689	123	19.62	46	5.531	260	41.03	232
	20	16.350	157	33.80	54	12.811	188	34.16	127	18.566	148	20.08	50	5.271	296	43.35	188
	30	16.193	171	34.34	52	12.623	203	35.43	86	18.418	163	20.58	52	4.975	321	45.23	139
Apr.	9	16.022	175	34.86	48	12.420	211	36.29	45	18.255	169	21.10	49	4.654	334	46.62	90
	19	15.847	170	35.34	42	12.209	209	36.74	3	18.086	166	21.59	46	4.320	335	47.52	39
	29	15.677	156	35.76	34	12.000	200	36.77	37	17.920	154	22.05	40	3.985	328	47.91	12
Mai	9	15.521	136	36.10	27	11.800	184	36.40	77	17.766	137	22.45	35	3.657	311	47.79	62
	19	15.385	110	36.37	19	11.616	162	35.63	113	17.629	114	22.80	28	3.346	285	47.17	111
	29	15.275	82	36.56	12	11.454	137	34.50	148	17.515	86	23.08	22	3.061	252	46.06	156
Juni	8	15.193	49	36.68	4	11.317	108	33.02	179	17.429	57	23.30	14	2.809	214	44.50	198
	18	15.144	18	36.72	4	11.209	75	31.23	204	17.372	27	23.44	8	2.595	169	42.52	233
	28	15.126	17	36.68	10	11.134	42	29.19	224	17.345	5	23.52	1	2.426	121	40.19	263
Juli	8	15.143	47	36.58	19	11.092	6	26.95	238	17.350	36	23.53	7	2.305	69	37.56	285
	18	15.190	81	36.39	26	11.086	29	24.57	244	17.386	67	23.46	16	2.236	14	34.71	299
	28	15.271	111	36.13	35	11.115	66	22.13	243	17.453	97	23.30	25	2.222	44	31.72	303
Aug.	7	15.382	140	35.78	45	11.181	103	19.70	232	17.550	126	23.05	36	2.266	101	28.69	297
	17	15.522	168	35.33	56	11.284	140	17.38	215	17.676	154	22.69	48	2.367	160	25.72	281
	27	15.690	196	34.77	68	11.424	176	15.23	187	17.830	182	22.21	62	2.527	217	22.91	254
Sept.	6	15.886	221	34.09	80	11.600	210	13.36	152	18.012	209	21.59	76	2.744	271	20.37	218
	16	16.107	247	33.29	93	11.810	244	11.84	110	18.221	235	20.83	90	3.015	321	18.19	173
	26	16.354	270	32.36	104	12.054	273	10.74	61	18.456	259	19.93	105	3.336	365	16.46	119
Okt.	6	16.624	290	31.32	115	12.327	299	10.13	9	18.715	281	18.88	118	3.701	402	15.27	60
	16	16.914	306	30.17	123	12.626	319	10.04	45	18.996	300	17.70	129	4.103	428	14.67	3
	26	17.220	320	28.94	129	12.945	332	10.49	101	19.296	314	16.41	136	4.531	443	14.70	68
Nov.	5	17.540	327	27.65	129	13.277	337	11.50	153	19.610	322	15.05	140	4.974	446	15.38	132
	15	17.867	323	26.36	125	13.614	333	13.03	200	19.932	323	13.65	138	5.420	434	16.70	192
	25	18.190	314	25.11	118	13.947	319	15.03	242	20.255	315	12.27	133	5.854	408	18.62	245
Dez.	5	18.504	296	23.93	104	14.266	294	17.45	276	20.570	299	10.94	121	6.262	369	21.07	292
	15	18.800	266	22.89	87	14.560	260	20.21	300	20.869	271	9.73	105	6.631	316	23.99	328
	25	19.066	229	22.02	67	14.820	216	23.21	314	21.140	236	8.68	86	6.947	254	27.27	354
	35	19.295		21.35		15.036		26.35		21.376		7.82		7.201		30.81	
Mittl. Ort		14.458		46.81		10.784		8.85		16.646		34.01		2.798		16.33	
sec δ, tg δ		1.069		+0.377		1.192		−0.649		1.054		+0.332		1.722		−1.401	
a, *a'*		+3.5		−12.1		+2.4		−13.0		+3.4		−13.0		+1.7		−13.1	
b, *b'*		−0.02		− 0.80		+0.03		− 0.76		−0.01		− 0.76		+0.06		− 0.76	

*) Bei Stern 327), 326) und 330) lies Jan. 31.

Scheinbare Sternörter 1940

Tag	328) ι Cancri AR.		328) ι Cancri Dekl.		334) ζ Hydrae AR.		334) ζ Hydrae Dekl.		336) 108 G. Carinae AR.		336) 108 G. Carinae Dekl.		335) ι Ursae maj. AR.		335) ι Ursae maj. Dekl.	
1940	$8^h\ 43^m$		+28° 58′		$8^h\ 52^m$		+6° 10′		$8^h\ 53^m$		−60° 24′		$8^h\ 55^m$		+48° 16′	
Jan. 1	5.888	228	35.52	14	14.964	207	18.87	147	44.55	25	52.53	368	8.408	295	24.82	86
11	6.116	177	35.38	13	15.171	162	17.40	129	44.80	16	56.21	380	8.703	232	25.68	119
21	6.293	120	35.51	37	15.333	112	16.11	108	44.96	8	60.01	382	8.935	161	26.87	146
31	[1] 6.413	63	35.88	57	[4] 15.445	61	15.03	86	[4] 45.04	2	63.83	372	[4] 9.096	87	28.33	167
Febr. 9	6.476	6	36.45	74	15.506	11	14.17	64	45.02	9	67.55	355	9.183	13	30.00	180
19	6.482	48	37.19	85	15.517	36	13.53	42	44.93	17	71.10	328	9.196	56	31.80	184
29	6.434	95	38.04	90	15.481	77	13.11	22	44.76	25	74.38	295	9.140	119	33.64	179
März 10	6.339	132	38.94	91	15.404	110	12.89	6	44.51	30	77.33	256	9.021	172	35.43	166
20	6.207	161	39.85	86	15.294	135	12.83	10	44.21	34	79.89	212	8.849	212	37.09	147
30	6.046	179	40.71	76	15.159	151	12.93	22	43.87	38	82.01	165	8.637	240	38.56	122
Apr. 9	5.867	185	41.47	65	15.008	158	13.15	32	43.49	39	83.66	114	8.397	255	39.78	91
19	5.682	183	42.12	49	14.850	157	13.47	41	43.10	41	84.80	62	8.142	255	40.69	58
29	5.499	171	42.61	34	14.693	147	13.88	48	42.69	39	85.42	10	7.887	245	41.27	24
Mai 9	5.328	152	42.95	17	14.546	133	14.36	53	42.30	38	85.52	42	7.642	224	41.51	11
19	5.176	127	43.12	1	14.413	113	14.89	58	41.92	36	85.10	93	7.418	195	41.40	44
29	5.049	99	43.13	14	14.300	89	15.47	61	41.56	33	84.17	141	7.223	160	40.96	75
Juni 8	4.950	66	42.99	29	14.211	63	16.08	64	41.23	28	82.76	186	7.063	120	40.21	105
18	4.884	32	42.70	43	14.148	35	16.72	64	40.95	23	80.90	226	6.943	76	39.16	129
28	4.852	2	42.27	55	14.113	7	17.36	63	40.72	18	78.64	258	6.867	31	37.87	152
Juli 8	4.854	36	41.72	67	14.106	21	17.99	60	40.54	12	76.06	285	6.836	14	36.35	171
18	4.890	70	41.05	77	14.127	50	18.59	54	40.42	5	73.21	302	6.850	60	34.64	186
28	4.960	103	40.28	88	14.177	79	19.13	45	40.37	1	70.19	310	6.910	104	32.78	197
Aug. 7	5.063	134	39.40	97	14.256	107	19.58	33	40.38	9	67.09	308	7.014	148	30.81	206
17	5.197	166	38.43	107	14.363	134	19.91	19	40.47	15	64.01	295	7.162	190	28.75	210
27	5.363	195	37.36	116	14.497	162	20.10	0	40.62	23	61.06	272	7.352	231	26.65	212
Sept. 6	5.558	224	36.20	124	14.659	188	20.10	21	40.85	29	58.34	238	7.583	270	24.53	211
16	5.782	252	34.96	130	14.847	215	19.89	44	41.14	35	55.96	194	7.853	308	22.42	205
26	6.034	278	33.66	136	15.062	241	19.45	68	41.49	41	54.02	143	8.161	343	20.37	195
Okt. 6	6.312	302	32.30	140	15.303	263	18.77	92	41.90	45	52.59	84	8.504	374	18.42	182
16	6.614	322	30.90	140	15.566	283	17.85	115	42.35	49	51.75	20	8.878	401	16.60	164
26	6.936	337	29.50	136	15.849	298	16.70	136	42.84	51	51.55	45	9.279	422	14.96	141
Nov. 5	7.273	347	28.14	128	16.147	308	15.34	153	43.35	51	52.00	111	9.701	436	13.55	114
15	7.620	347	26.86	115	16.455	311	13.81	165	43.86	51	53.11	174	10.137	438	12.41	83
25	7.967	340	25.71	99	16.766	304	12.16	171	44.37	47	54.85	231	10.575	430	11.58	48
Dez. 5	8.307	322	24.72	78	17.070	289	10.45	172	44.84	42	57.16	281	11.005	410	11.10	11
15	8.629	293	23.94	54	17.359	264	8.73	165	45.26	37	59.97	321	11.415	376	10.99	28
25	8.922	256	23.40	28	17.623	231	7.08	155	45.63	30	63.18	352	11.791	329	11.27	66
35	9.178		23.12		17.854		5.53		45.93		66.70		12.120		11.93	
Mittl. Ort	4.207		50.75		13.373		30.11		41.35		53.33		6.535		43.08	
sec δ, tg δ	1.143		+0.554		1.006		+0.108		2.025		−1.761		1.503		+1.122	
a, *a′*	+3.6		−13.1		+3.2		−13.7		+1.4		−13.8		+4.2		−13.9	
b, *b′*	−0.02		−0.76		0.00		−0.73		+0.08		−0.73		−0.05		−0.72	

Tag	337) α Cancri AR.	Δ	Dekl.	Δ	339) Br 1268 Lynx AR.	Δ	Dekl.	Δ	341) ϰ Ursae maj. AR.	Δ	Dekl.	Δ	343) α Volantis AR.	Δ	Dekl.	Δ
1940	$8^h\ 55^m$		$+12°\ 5'$		$8^h\ 56^m$		$+42°\ 0'$		$8^h\ 59^m$		$+47°\ 23'$		$9^h\ 1^m$		$-66°\ 9'$	
	s		"		s		"		s		"		s		"	
Jan. 1	14.002	215	15.88	116	46.862	272	60.52	51	34.101	297	24.70	78	34.12	30	20.27	366
11	14.217	170	14.72	95	47.134	216	61.03	83	34.398	235	25.48	112	34.42	19	23.93	382
21	14.387	120	13.77	73	47.350	152	61.86	111	34.633	167	26.60	140	34.61	9	27.75	386
31	14.507	67	13.04	49	47.502	85	62.97	132	34.800	94	28.00	162	34.70	1	31.61	382
Febr. 9	4 14.574	16	12.55	28	5 47.587	18	64.29	147	5 34.894	21	29.62	177	6 34.69	12	35.43	367
19	14.590	32	12.27	9	47.605	45	65.76	155	34.915	48	31.39	181	34.57	21	39.10	343
29	14.558	74	12.18	9	47.560	102	67.31	154	34.867	110	33.20	178	34.36	29	42.53	312
März 10	14.484	109	12.27	21	47.458	149	68.85	146	34.757	162	34.98	167	34.07	36	45.65	275
20	14.375	135	12.48	32	47.309	185	70.31	132	34.595	204	36.65	149	33.71	42	48.40	233
30	14.240	151	12.80	39	47.124	209	71.63	112	34.391	231	38.14	125	33.29	46	50.73	186
Apr. 9	14.089	160	13.19	44	46.915	222	72.75	88	34.160	246	39.39	95	32.83	48	52.59	135
19	13.929	158	13.63	47	46.693	223	73.63	60	33.914	248	40.34	63	32.35	50	53.94	84
29	13.771	150	14.10	48	46.470	213	74.23	31	33.666	239	40.97	30	31.85	50	54.78	30
Mai 9	13.621	134	14.58	47	46.257	195	74.54	3	33.427	220	41.27	5	31.35	49	55.08	23
19	13.487	115	15.05	46	46.062	169	74.57	26	33.207	192	41.22	37	30.86	46	54.85	76
29	13.372	91	15.51	44	45.893	137	74.31	53	33.015	158	40.85	69	30.40	43	54.09	126
Juni 8	13.281	64	15.95	42	45.756	101	73.78	78	32.857	120	40.16	97	29.97	37	52.83	173
18	13.217	37	16.37	38	45.655	63	73.00	101	32.737	78	39.19	123	29.60	32	51.10	215
28	13.180	7	16.75	33	45.592	23	71.99	121	32.659	34	37.96	146	29.28	26	48.95	252
Juli 8	13.173	21	17.08	27	45.569	17	70.78	138	32.625	10	36.50	165	29.02	18	46.43	281
18	13.194	51	17.35	19	45.586	57	69.40	153	32.635	54	34.85	181	28.84	10	43.62	301
28	13.245	79	17.54	10	45.643	96	67.87	164	32.689	98	33.04	193	28.74	2	40.61	313
Aug. 7	13.324	108	17.64	2	45.739	134	66.23	175	32.787	141	31.11	203	28.72	6	37.48	314
17	13.432	135	17.62	16	45.873	172	64.48	181	32.928	182	29.08	208	28.78	16	34.34	305
27	13.567	164	17.46	33	46.045	208	62.67	186	33.110	223	27.00	210	28.94	24	31.29	284
Sept. 6	13.731	191	17.13	50	46.253	244	60.81	188	33.333	262	24.90	210	29.18	33	28.45	253
16	13.922	217	16.63	70	46.497	277	58.93	187	33.595	299	22.80	206	29.51	41	25.92	212
26	14.139	243	15.93	90	46.774	309	57.06	182	33.894	334	20.74	197	29.92	47	23.80	162
Okt. 6	14.382	266	15.03	108	47.083	339	55.24	174	34.228	367	18.77	185	30.39	54	22.18	103
16	14.648	287	13.95	126	47.422	364	53.50	163	34.595	393	16.92	168	30.93	58	21.15	41
26	14.935	304	12.69	141	47.786	383	51.87	146	34.988	416	15.24	146	31.51	60	20.74	26
Nov. 5	15.239	314	11.28	151	48.169	396	50.41	125	35.404	429	13.78	120	32.11	61	21.00	93
15	15.553	317	9.77	157	48.565	401	49.16	99	35.833	434	12.58	90	32.72	60	21.93	157
25	15.870	311	8.20	157	48.966	393	48.17	70	36.267	427	11.68	56	33.32	56	23.50	217
Dez. 5	16.181	297	6.63	152	49.359	376	47.47	37	36.694	408	11.12	18	33.88	51	25.67	269
15	16.478	272	5.11	141	49.735	345	47.10	3	37.102	375	10.94	20	34.39	44	28.36	314
25	16.750	240	3.70	125	50.080	304	47.07	33	37.477	331	11.14	58	34.83	35	31.50	348
35	16.990		2.45		50.384		47.40		37.808		11.72		35.18		34.98	
Mittl. Ort	12.431		28.27		45.117		78.04		32.282		43.01		30.31		22.36	
sec δ, tg δ	1.023		+0.214		1.346		+0.901		1.477		+1.087		2.474		−2.263	
a, a'	+3.3		−13.9		+3.9		−14.0		+4.1		−14.1		+0.9		−14.3	
b, b'	−0.01		− 0.72		−0.04		− 0.72		−0.05		− 0.71		+0.11		− 0.70	

Scheinbare Sternörter 1940

Tag	344) σ² Ursae maj. AR.	Diff.	Dekl.	Diff.	345) λ Velorum AR.	Diff.	Dekl.	Diff.	347) ϑ Hydrae AR.	Diff.	Dekl.	Diff.	348) β Carinae AR.	Diff.	Dekl.	Diff.
1940	$9^h\ 5^m$		+67° 22′		$9^h\ 5^m$		−43° 11′		$9^h\ 11^m$		+2° 33′		$9^h\ 12^m$		−69° 28′	
	s		″		s		″		s		″		s		″	
Jan. 1	10.91	47	27.09	169	49.447	225	23.00	343	16.135	221	56.09	172	37.37	35	7.90	359
11	11.38	37	28.78	206	49.672	167	26.43	350	16.356	177	54.37	155	37.72	24	11.49	379
21	11.75	26	30.84	236	49.839	105	29.93	347	16.533	129	52.82	135	37.96	12	15.28	387
31	12.01	14	33.20	256	49.944	41	33.40	335	16.662	79	51.47	113	38.08	0	19.15	385
Febr. 9	12.15	1	35.76	265	49.985	20	36.75	316	16.741	29	50.34	89	38.08	11	23.00	375
19	12.16	10	38.41	261	49.965	77	39.91	289	16.770	19	49.45	66	37.97	22	26.75	354
29	12.06	21	41.02	249	49.888	127	42.80	257	16.751	60	48.79	44	37.75	32	30.29	325
März 10	11.85	31	43.51	226	49.761	170	45.37	220	16.691	96	48.35	24	37.43	40	33.54	291
20	11.54	38	45.77	193	49.591	202	47.57	179	16.595	122	48.11	5	37.03	46	36.45	250
30	11.16	43	47.70	154	49.389	225	49.36	135	16.473	140	48.06	10	36.57	52	38.95	205
Apr. 9	10.73	47	49.24	109	49.164	239	50.71	91	16.333	150	48.16	24	36.05	56	41.00	156
19	10.26	48	50.33	61	48.925	244	51.62	45	16.183	151	48.40	37	35.49	57	42.56	105
29	9.78	47	50.94	12	48.681	240	52.07	2	16.032	146	48.77	46	34.92	59	43.61	51
Mai 9	9.31	45	51.06	37	48.441	228	52.05	47	15.886	134	49.23	55	34.33	57	44.12	4
19	8.86	40	50.69	83	48.213	211	51.58	91	15.752	118	49.78	63	33.76	55	44.08	56
29	8.46	34	49.86	127	48.002	188	50.67	132	15.634	97	50.41	69	33.21	51	43.52	108
Juni 8	8.12	29	48.59	167	47.814	159	49.35	170	15.537	74	51.10	73	32.70	46	42.44	157
18	7.83	21	46.92	202	47.655	128	47.65	204	15.463	49	51.83	76	32.24	41	40.87	202
28	7.62	13	44.90	231	47.527	93	45.61	232	15.414	23	52.59	77	31.83	33	38.85	241
Juli 8	7.49	4	42.59	255	47.434	54	43.29	252	15.391	5	53.36	74	31.50	25	36.44	273
18	7.45	3	40.04	273	47.380	15	40.77	266	15.396	31	54.10	70	31.25	16	33.71	297
28	7.48	11	37.31	285	47.365	28	38.11	271	15.427	59	54.80	61	31.09	7	30.74	312
Aug. 7	7.59	19	34.46	291	47.393	72	35.40	268	15.486	87	55.41	50	31.02	4	27.62	316
17	7.78	28	31.55	292	47.465	117	32.72	254	15.573	115	55.91	34	31.06	14	24.46	311
27	8.06	35	28.63	287	47.582	161	30.18	231	15.688	143	56.25	15	31.20	25	21.35	293
Sept. 6	8.41	41	25.76	276	47.743	205	27.87	198	15.831	171	56.40	7	31.45	34	18.42	266
16	8.82	49	23.00	260	47.948	247	25.89	157	16.002	200	56.33	32	31.79	44	15.76	227
26	9.31	55	20.40	238	48.195	286	24.32	109	16.202	227	56.01	58	32.23	52	13.49	179
Okt. 6	9.86	60	18.02	211	48.481	320	23.23	55	16.429	252	55.43	86	32.75	59	11.70	123
16	10.46	64	15.91	178	48.801	348	22.68	3	16.681	275	54.57	113	33.34	65	10.47	61
26	11.10	69	14.13	140	49.149	368	22.71	64	16.956	294	53.44	137	33.99	68	9.86	5
Nov. 5	11.79	70	12.73	97	49.517	378	23.35	123	17.250	306	52.07	158	34.67	70	9.91	72
15	12.49	70	11.76	51	49.895	376	24.58	178	17.556	312	50.49	174	35.37	68	10.63	138
25	13.19	69	11.25	2	50.271	364	26.36	229	17.868	308	48.75	185	36.05	64	12.01	199
Dez. 5	13.88	66	11.23	48	50.635	339	28.65	272	18.176	297	46.90	189	36.69	59	14.00	254
15	14.54	61	11.71	98	50.974	303	31.37	306	18.473	274	45.01	187	37.28	51	16.54	301
25	15.15	53	12.69	145	51.277	256	34.43	331	18.747	243	43.14	178	37.79	42	19.55	339
35	15.68		14.14		51.533		37.74		18.990		41.36		38.21		22.94	
Mittl. Ort	8.29		47.53		47.215		22.13		14.603		66.34		33.07		11.27	
sec δ, tg δ	2.600		+2.400		1.372		−0.939		1.001		+0.045		2.851		−2.670	
a, *a′*	+5.3		−14.5		+2.2		−14.5		+3.1		−14.9		+0.7		−14.9	
b, *b′*	−0.12		− 0.69		+0.05		− 0.69		0.00		− 0.67		+0.13		− 0.67	

Tag	350) 83 Cancri AR.	Δ	350) 83 Cancri Dekl.	Δ	352) α Lyncis AR.	Δ	352) α Lyncis Dekl.	Δ	353) κ Velorum AR.	Δ	353) κ Velorum Dekl.	Δ	354) α Hydrae AR.	Δ	354) α Hydrae Dekl.	Δ
1940	$9^h\ 15^m$		$+17°\ 57'$		$9^h\ 17^m$		$+34°\ 38'$		$9^h\ 20^m$		$-54°\ 45'$		$9^h\ 24^m$		$-8°\ 23'$	
	s		"		s		"		s		"		s		"	
Jan. 1	39.551	239	25.17	92	25.842	271	33.85	2	17.964	274	11.41	353	39.864	226	58.94	225
11	39.790	194	24.25	67	26.113	222	33.83	30	18.238	203	14.94	369	40.090	184	61.19	215
21	39.984	144	23.58	42	26.335	165	34.13	61	18.441	129	18.63	374	40.274	136	63.34	200
31	40.128	91	23.16	17	26.500	105	34.74	86	18.570	52	22.37	368	40.410	87	65.34	179
Febr. 9*)	(9) 40.219	38	22.99	6	(10) 26.605	44	35.60	107	(11) 18.622	23	26.05	355	(12) 40.497	37	67.13	156
19	40.257	12	23.05	25	26.649	14	36.67	121	18.599	92	29.60	332	40.534	11	68.69	131
29	40.245	57	23.30	41	26.635	67	37.88	128	18.507	155	32.92	302	40.523	53	70.00	105
März 10	40.188	95	23.71	52	26.568	112	39.16	128	18.352	208	35.94	266	40.470	88	71.05	79
20	40.093	125	24.23	59	26.456	148	40.44	123	18.144	251	38.60	226	40.382	116	71.84	53
30	39.968	146	24.82	62	26.308	172	41.67	111	17.893	284	40.86	182	40.266	136	72.37	30
Apr. 9	39.822	157	25.44	62	26.136	187	42.78	95	17.609	306	42.68	134	40.130	148	72.67	6
19	39.665	159	26.06	59	25.949	192	43.73	76	17.303	318	44.02	85	39.982	151	72.73	16
29	39.506	154	26.65	53	25.757	186	44.49	54	16.985	319	44.87	35	39.831	149	72.57	36
Mai 9	39.352	142	27.18	47	25.571	173	45.03	30	16.666	311	45.22	16	39.682	139	72.21	55
19	39.210	125	27.65	39	25.398	154	45.33	8	16.355	296	45.06	66	39.543	125	71.66	73
29	39.085	103	28.04	31	25.244	129	45.41	16	16.059	273	44.40	113	39.418	108	70.93	88
Juni 8	38.982	79	28.35	22	25.115	100	45.25	38	15.786	243	43.27	158	39.310	87	70.05	102
18	38.903	52	28.57	13	25.015	69	44.87	58	15.543	206	41.69	199	39.223	64	69.03	112
28	38.851	24	28.70	4	24.946	36	44.29	78	15.337	165	39.70	233	39.159	39	67.91	121
Juli 8	38.827	4	28.74	6	24.910	2	43.51	96	15.172	119	37.37	262	39.120	14	66.70	125
18	38.831	32	28.68	17	24.908	33	42.55	111	15.053	69	34.75	282	39.106	13	65.45	124
28	38.863	62	28.51	29	24.941	66	41.44	126	14.984	14	31.93	294	39.119	40	64.21	120
Aug. 7	38.925	91	28.22	42	25.007	100	40.18	139	14.970	44	28.99	295	39.159	69	63.01	111
17	39.016	119	27.80	56	25.107	134	38.79	151	15.014	102	26.04	288	39.228	97	61.90	95
27	39.135	149	27.24	71	25.241	168	37.28	160	15.116	163	23.16	269	39.325	128	60.95	74
Sept. 6	39.284	178	26.53	87	25.409	201	35.68	168	15.279	222	20.47	241	39.453	157	60.21	50
16	39.462	207	25.66	103	25.610	234	34.00	174	15.501	279	18.06	201	39.610	188	59.71	20
26	39.669	235	24.63	119	25.844	266	32.26	178	15.780	331	16.05	154	39.798	217	59.51	12
Okt. 6	39.904	261	23.44	133	26.110	295	30.48	177	16.111	377	14.51	98	40.015	245	59.63	48
16	40.165	286	22.11	146	26.405	323	28.71	174	16.488	414	13.53	38	40.260	270	60.11	85
26	40.451	306	20.65	154	26.728	345	26.97	165	16.902	442	13.15	25	40.530	291	60.96	119
Nov. 5	40.757	321	19.11	159	27.073	361	25.32	153	17.344	456	13.40	89	40.821	305	62.15	151
15	41.078	327	17.52	158	27.434	370	23.79	134	17.800	455	14.29	152	41.126	312	63.66	179
25	41.405	325	15.94	153	27.804	368	22.45	111	18.255	440	15.81	209	41.438	310	65.45	202
Dez. 5	41.730	315	14.41	142	28.172	356	21.34	84	18.695	411	17.90	260	41.748	300	67.47	217
15	42.045	293	12.99	125	28.528	333	20.50	54	19.106	367	20.50	303	42.048	278	69.64	226
25	42.338	261	11.74	104	28.861	297	19.96	20	19.473	312	23.53	336	42.326	248	71.90	226
35	42.599		10.70		29.158		19.76		19.785		26.89		42.574		74.16	
Mittl. Ort	38.070		38.76		24.314		50.72		15.253		13.50		38.312		51.56	
sec δ, tg δ	1.051		+0.324		1.216		+0.691		1.733		−1.415		1.011		−0.148	
a, a'	+3.4		−15.1		+3.7		−15.2		+1.9		−15.4		+2.9		−15.6	
b, b'	−0.02		−0.66		−0.03		−0.65		+0.07		−0.64		+0.01		−0.63	

*) Bei Stern 352), 353) und 354) lies Febr. 10

Scheinbare Sternörter 1940

Tag	355) 23 Ursae maj. AR.		355) Dekl.		359) ψ Velorum *m* AR.		359) Dekl.		358) ϑ Ursae maj. AR.		358) Dekl.		357) 24 Ursae maj. AR.		357) Dekl.	
1940	9h 26m		+63° 18′		9h 28m		−40° 12′		9h 28m		+51° 56′		9h 29m		+70° 5′	
	s		″		s		″		s		″		s		″	
Jan. 1	51.25	45	71.32	132	22.123	247	11.56	329	53.000	351	47.25	77	15.14	58	22.85	158
11	51.70	37	72.64	174	22.370	194	14.85	338	53.351	288	48.02	116	15.72	46	24.43	200
21	52.07	28	74.38	209	22.564	136	18.23	338	53.639	217	49.18	151	16.18	34	26.43	236
31	52.35	17	76.47	234	22.700	75	21.61	330	53.856	141	50.69	178	16.52	21	28.79	261
Febr. 10	52.52	6	78.81	249	22.775	15	24.91	312	53.997	62	52.47	198	16.73	8	31.40	275
	12				13				13				13			
19	52.58	3	81.30	255	22.790	40	28.03	288	54.059	16	54.45	208	16.81	6	34.15	278
29	52.55	13	83.85	249	22.750	90	30.91	259	54.043	86	56.53	208	16.75	18	36.93	269
März 10	52.42	22	86.34	233	22.660	134	33.50	224	53.957	148	58.61	199	16.57	30	39.62	249
20	52.20	29	88.67	207	22.526	168	35.74	187	53.809	199	60.60	181	16.27	39	42.11	220
30	51.91	34	90.74	173	22.358	193	37.61	146	53.610	237	62.41	157	15.88	46	44.31	182
Apr. 9	51.57	38	92.47	134	22.165	210	39.07	104	53.373	262	63.98	127	15.42	51	46.13	139
19	51.19	39	93.81	91	21.955	218	40.11	60	53.111	273	65.25	92	14.91	54	47.52	90
29	50.80	40	94.72	44	21.737	219	40.71	16	52.838	271	66.17	54	14.37	54	48.42	40
Mai 9	50.40	38	95.16	3	21.518	212	40.87	27	52.567	258	66.71	16	13.83	53	48.82	12
19	50.02	34	95.13	49	21.306	200	40.60	70	52.309	237	66.87	22	13.30	49	48.70	62
29	49.68	31	94.64	94	21.106	181	39.90	110	52.072	207	66.65	60	12.81	44	48.08	109
Juni 8	49.37	26	93.70	134	20.925	158	38.80	148	51.865	170	66.05	95	12.37	37	46.99	153
18	49.11	20	92.36	171	20.767	132	37.32	182	51.695	131	65.10	127	12.00	30	45.46	193
28	48.91	14	90.65	203	20.635	102	35.50	210	51.564	87	63.83	156	11.70	22	43.53	228
Juli 8	48.77	8	88.62	230	20.533	69	33.40	232	51.477	41	62.27	181	11.48	13	41.25	256
18	48.69	1	86.32	253	20.464	33	31.08	248	51.436	6	60.46	203	11.35	4	38.69	278
28	48.68	6	83.79	270	20.431	6	28.60	256	51.442	52	58.43	220	11.31	5	35.91	296
Aug. 7	48.74	13	81.09	281	20.437	46	26.04	254	51.494	99	56.23	233	11.36	14	32.95	307
17	48.87	19	78.28	287	20.483	87	23.50	245	51.593	147	53.90	242	11.50	23	29.88	310
27	49.06	26	75.41	287	20.570	131	21.05	225	51.740	192	51.48	248	11.73	31	26.78	309
Sept. 6	49.32	32	72.54	283	20.701	174	18.80	197	51.932	238	49.00	249	12.04	40	23.69	302
16	49.64	38	69.71	273	20.875	217	16.83	160	52.170	283	46.51	245	12.44	49	20.67	288
26	50.02	44	66.98	256	21.092	257	15.23	114	52.453	326	44.06	237	12.93	56	17.79	268
Okt. 6	50.46	49	64.42	234	21.349	294	14.09	64	52.779	366	41.69	223	13.49	62	15.11	242
16	50.95	54	62.08	206	21.643	325	13.45	9	53.145	402	39.46	205	14.11	69	12.69	209
26	51.49	58	60.02	173	21.968	350	13.36	49	53.547	432	37.41	181	14.80	74	10.60	172
Nov. 5	52.07	60	58.29	135	22.318	365	13.85	107	53.979	454	35.60	152	15.54	76	8.88	127
15	52.67	61	56.94	90	22.683	370	14.92	162	54.433	467	34.08	117	16.30	79	7.61	80
25	53.28	62	56.04	43	23.053	364	16.54	211	54.900	466	32.91	79	17.09	78	6.81	28
Dez. 5	53.90	59	55.61	6	23.417	345	18.65	255	55.366	453	32.12	36	17.87	75	6.53	25
15	54.49	55	55.67	57	23.762	316	21.20	290	55.819	426	31.76	8	18.62	70	6.78	78
25	55.04	50	56.24	105	24.078	275	24.10	316	56.245	384	31.84	52	19.32	63	7.56	130
35	55.54		57.29		24.353		27.26		56.629		32.36		19.95		8.86	
Mittl. Ort	49.21		92.36		20.053		11.60		51.343		67.10		12.70		44.49	
sec δ, tg δ	2.228		+1.991		1.309		−0.845		1.623		+1.278		2.937		+2.762	
a, *a′*	+4.7		−15.7		+2.4		−15.8		+4.1		−15.8		+5.3		−15.9	
b, *b′*	−0.10		− 0.62		+0.04		− 0.61		−0.07		− 0.61		−0.15		− 0.61	

Tag	360) 10 Leonis min. AR.		360) Dekl.		366) ϑ Antliae AR.		366) Dekl.		367) ε Leonis AR.		367) Dekl.		369) υ Carinae AR.		369) Dekl.	
1940	$9^h\ 30^m$		+36° 39′		$9^h\ 41^m$		−27° 29′		$9^h\ 42^m$		+24° 2′		$9^h\ 45^m$		−64° 47′	
	s		″		s		″		s		″		s		″	
Jan. 1	34.664	289	36.55	1	33.227	245	40.53	294	28.277	269	50.28	73	39.62	38	29.65	341
11	34.953	240	36.54	34	33.472	201	43.47	297	28.546	227	49.55	44	40.00	29	33.06	367
21	35.193	183	36.88	67	33.673	150	46.44	292	28.773	177	49.11	13	40.29	21	36.73	381
31	35.376	123	37.55	95	33.823	97	49.36	280	28.950	123	48.98	15	40.50	10	40.54	385
Febr. 10	35.499	61	38.50	117	33.920	44	52.16	261	29.073	69	49.13	41	40.60	0	44.39	379
	13				16				16				17			
19	35.560	1	39.67	133	33.964	7	54.77	237	29.142	16	49.54	62	40.60	9	48.18	364
29	35.561	54	41.00	142	33.957	52	57.14	209	29.158	33	50.16	77	40.51	17	51.82	342
März 10	35.507	102	42.42	143	33.905	92	59.23	178	29.125	75	50.93	88	40.34	24	55.24	311
20	35.405	140	43.85	137	33.813	123	61.01	144	29.050	110	51.81	93	40.10	32	58.35	274
30	35.265	169	45.22	125	33.690	147	62.45	110	28.940	135	52.74	93	39.78	36	61.09	233
Apr. 9	35.096	186	46.47	108	33.543	163	63.55	75	28.805	152	53.67	88	39.42	40	63.42	188
19	34.910	193	47.55	87	33.380	171	64.30	38	28.653	159	54.55	79	39.02	42	65.30	138
29	34.717	191	48.42	63	33.209	172	64.68	2	28.494	159	55.34	69	38.60	44	66.68	87
Mai 9	34.526	181	49.05	38	33.037	167	64.70	32	28.335	151	56.03	55	38.16	45	67.55	35
19	34.345	163	49.43	13	32.870	157	64.38	66	28.184	138	56.58	40	37.71	43	67.90	19
29	34.182	140	49.56	14	32.713	142	63.72	97	28.046	120	56.98	26	37.28	42	67.71	72
Juni 8	34.042	113	49.42	38	32.571	123	62.75	127	27.926	98	57.24	9	36.86	38	66.99	121
18	33.929	82	49.04	62	32.448	102	61.48	153	27.828	74	57.33	6	36.48	35	65.78	168
28	33.847	51	48.42	84	32.346	77	59.95	174	27.754	48	57.27	21	36.13	29	64.10	210
Juli 8	33.796	17	47.58	104	32.269	51	58.21	190	27.706	21	57.06	37	35.84	24	62.00	247
18	33.779	17	46.54	122	32.218	22	56.31	202	27.685	7	56.69	52	35.60	18	59.53	275
28	33.796	52	45.32	138	32.196	9	54.29	205	27.692	36	56.17	67	35.42	10	56.78	296
Aug. 7	33.848	86	43.94	153	32.205	41	52.24	202	27.728	65	55.50	82	35.32	3	53.82	306
17	33.934	121	42.41	165	32.246	75	50.22	192	27.793	96	54.68	97	35.29	6	50.76	307
27	34.055	156	40.76	176	32.321	111	48.30	173	27.889	127	53.71	113	35.35	15	47.69	297
Sept. 6	34.211	190	39.00	185	32.432	148	46.57	146	28.016	158	52.58	127	35.50	22	44.72	275
16	34.401	226	37.15	190	32.580	184	45.11	113	28.174	190	51.31	142	35.72	32	41.97	242
26	34.627	260	35.25	194	32.764	220	43.98	72	28.364	222	49.89	154	36.04	39	39.55	200
Okt. 6	34.887	293	33.31	192	32.984	254	43.26	28	28.586	253	48.35	165	36.43	46	37.55	149
16	35.180	322	31.39	188	33.238	284	42.98	21	28.839	282	46.70	172	36.89	52	36.06	91
26	35.502	347	29.51	179	33.522	309	43.19	70	29.121	307	44.98	176	37.41	56	35.15	27
Nov. 5	35.849	366	27.72	163	33.831	326	43.89	119	29.428	326	43.22	174	37.97	59	34.88	38
15	36.215	378	26.09	144	34.157	335	45.08	165	29.754	339	41.48	169	38.56	59	35.26	105
25	36.593	379	24.65	118	34.492	335	46.73	206	30.093	342	39.79	156	39.15	58	36.31	167
Dez. 5	36.972	369	23.47	89	34.827	323	48.79	241	30.435	336	38.23	138	39.73	55	37.98	225
15	37.341	348	22.58	56	35.150	301	51.20	267	30.771	319	36.85	116	40.28	50	40.23	277
25	37.689	315	22.02	21	35.451	268	53.87	285	31.090	291	35.69	90	40.78	42	43.00	318
35	38.004		21.81		35.719		56.72		31.381		34.79		41.20		46.18	
Mittl. Ort	33.208		54.00		31.493		38.52		26.935		65.23		36.17		35.16	
sec δ, tg δ	1.247		+0.744		1.127		−0.520		1.095		+0.446		2.348		−2.124	
a, *a′*	+3.7		−15.9		+2.7		−16.5		+3.4		−16.5		+1.5		−16.7	
b, *b′*	−0.04		− 0.61		+0.03		− 0.57		−0.02		− 0.56		+0.12		− 0.55	

Scheinbare Sternörter 1940

Tag	368) υ Ursae maj. AR.		Dekl.		370) 6 Sextantis AR.		Dekl.		372) Grb 1586 UMaj AR.		Dekl.		378) π Leonis AR.		Dekl.	
1940	$9^h\,46^m$		$+59°\,18'$		$9^h\,48^m$		$-3°\,57'$		$9^h\,53^m$		$+73°\,9'$		$9^h\,57^m$		$+8°\,19'$	
Jan. 1	46.036	432	58.29	95	14.010	246	48.69	208	6.04	71	35.49	144	3.931	259	47.47	156
11	46.468	362	59.24	140	14.256	207	50.77	196	6.75	59	36.93	191	4.190	221	45.91	136
21	46.830	281	60.64	178	14.463	161	52.73	179	7.34	46	38.84	232	4.411	176	44.55	111
31	47.111	192	62.42	209	14.624	112	54.52	158	7.80	31	41.16	262	4.587	127	43.44	86
Febr. 10	47.303	100	64.51	231	14.736	63	56.10	134	8.11	16	43.78	282	4.714	77	42.58	59
19*)	[17] 47.403	8	66.82	242	[18] 14.799	15	57.44	109	[19] 8.27	1	46.60	291	[20] 4.791	28	41.99	35
29	47.411	78	69.24	243	14.814	28	58.53	84	8.26	15	49.51	286	4.819	16	41.64	13
März 10	47.333	157	71.67	234	14.786	65	59.37	60	8.11	29	52.37	271	4.803	56	41.51	7
20	47.176	222	74.01	215	14.721	95	59.97	37	7.82	40	55.08	244	4.747	88	41.58	23
30	46.954	274	76.16	187	14.626	118	60.34	16	7.42	51	57.52	209	4.659	112	41.81	36
Apr. 9	46.680	310	78.03	153	14.508	133	60.50	4	6.91	58	59.61	166	4.547	129	42.17	46
19	46.370	330	79.56	113	14.375	140	60.46	21	6.33	62	61.27	118	4.418	138	42.63	53
29	46.040	337	80.69	70	14.235	141	60.25	38	5.71	64	62.45	66	4.280	139	43.16	57
Mai 9	45.703	328	81.39	26	14.094	135	59.87	52	5.07	64	63.11	14	4.141	134	43.73	59
19	45.375	308	81.65	18	13.959	125	59.35	65	4.43	61	63.25	40	4.007	125	44.32	60
29	45.067	279	81.47	62	13.834	111	58.70	76	3.82	57	62.85	91	3.882	111	44.92	60
Juni 8	44.788	241	80.85	103	13.723	93	57.94	85	3.25	50	61.94	138	3.771	94	45.52	57
18	44.547	196	79.82	141	13.630	74	57.09	93	2.75	42	60.56	183	3.677	75	46.09	53
28	44.351	146	78.41	176	13.556	52	56.16	97	2.33	34	58.73	221	3.602	54	46.62	48
Juli 8	44.205	93	76.65	206	13.504	29	55.19	98	1.99	24	56.52	255	3.548	31	47.10	41
18	44.112	38	74.59	231	13.475	4	54.21	97	1.75	15	53.97	282	3.517	7	47.51	33
28	44.074	18	72.28	251	13.471	21	53.24	91	1.60	4	51.15	304	3.510	18	47.84	22
Aug. 7	44.092	76	69.77	268	13.492	48	52.33	82	1.56	7	48.11	319	3.528	45	48.06	9
17	44.168	133	67.09	278	13.540	77	51.51	67	1.63	18	44.92	327	3.573	73	48.15	7
27	44.301	192	64.31	284	13.617	106	50.84	48	1.81	28	41.65	330	3.646	101	48.08	24
Sept. 6	44.493	248	61.47	284	13.723	136	50.36	25	2.09	38	38.35	325	3.747	132	47.84	45
16	44.741	304	58.63	280	13.859	168	50.11	2	2.47	49	35.10	314	3.879	164	47.39	67
26	45.045	358	55.83	268	14.027	199	50.13	32	2.96	58	31.96	296	4.043	195	46.72	90
Okt. 6	45.403	410	53.15	252	14.226	230	50.45	63	3.54	66	29.00	271	4.238	226	45.82	113
16	45.813	456	50.63	230	14.456	258	51.08	95	4.20	75	26.29	240	4.464	255	44.69	135
26	46.269	495	48.33	201	14.714	282	52.03	126	4.95	81	23.89	202	4.719	281	43.34	155
Nov. 5	46.764	526	46.32	166	14.996	301	53.29	154	5.76	87	21.87	158	5.000	302	41.79	170
15	47.290	546	44.66	126	15.297	312	54.83	178	6.63	89	20.29	109	5.302	315	40.09	182
25	47.836	550	43.40	81	15.609	315	56.61	196	7.52	90	19.20	56	5.617	321	38.27	187
Dez. 5	48.386	540	42.59	33	15.924	309	58.57	209	8.42	89	18.64	1	5.938	317	36.40	185
15	48.926	512	42.26	17	16.233	292	60.66	213	9.31	84	18.65	57	6.255	303	34.55	179
25	49.438	469	42.43	67	16.525	266	62.79	211	10.15	77	19.22	113	6.558	278	32.76	165
35	49.907		43.10		16.791		64.90		10.92		20.35		6.836		31.11	
Mittl. Ort	44.400		79.55		12.588		40.89		3.80		58.12		2.627		58.37	
sec δ, tg δ	1.960		+1.686		1.002		−0.069		3.453		+ 3.305		1.011		+0.146	
a, a′	+4.3		−16.7		+3.0		−16.8		+5.4		−17.0		+3.2		−17.2	
b, b′	−0.09		− 0.55		0.00		− 0.54		−0.19		− 0.53		−0.01		− 0.51	

*) Bei Stern 378) lies Febr. 20.

Tag		379) η Leonis				380) α Leonis				381) λ Hydrae				382) 191 G. Velorum			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940		$10^h\ 4^m$		$+17°\ 2'$		$10^h\ 5^m$		$+12°\ 15'$		$10^h\ 7^m$		$-12°\ 3'$		$10^h\ 12^m$		$-41°\ 49'$	
		s		"		s		"		s		"		s		"	
Jan.	1	5.047	274	68.51	119	11.946	268	28.54	141	41.118	259	29.50	240	14.744	298	23.52	311
	11	5.321	235	67.32	91	12.214	231	27.13	117	41.377	221	31.90	235	15.042	251	26.63	329
	21	5.556	189	66.41	63	12.445	185	25.96	91	41.598	177	34.25	223	15.293	195	29.92	336
	31	5.745	140	65.78	34	12.630	137	25.05	63	41.775	129	36.48	205	15.488	136	33.28	335
Febr.	10	5.885	88	65.44	6	12.767	87	24.42	37	41.904	79	38.53	184	15.624	77	36.63	325
	20	$_{22}$5.973	38	65.38	19	$_{22}$12.854	37	24.05	11	$_{23}$41.983	32	40.37	160	$_{24}$15.701	19	39.88	307
	29	6.011	9	65.57	39	12.891	8	23.94	11	42.015	12	41.97	134	15.720	35	42.95	284
März	10	6.002	51	65.96	55	12.883	49	24.05	29	42.003	51	43.31	108	15.685	81	45.79	255
	20	5.951	86	66.51	67	12.834	83	24.34	44	41.952	83	44.39	81	15.604	122	48.34	222
	30	5.865	112	67.18	74	12.751	109	24.78	54	41.869	108	45.20	55	15.482	155	50.56	185
Apr.	9	5.753	130	67.92	76	12.642	126	25.32	61	41.761	125	45.75	30	15.327	179	52.41	145
	19	5.623	141	68.68	76	12.516	137	25.93	64	41.636	136	46.05	5	15.148	195	53.86	104
	29	5.482	144	69.44	71	12.379	139	26.57	65	41.500	139	46.10	17	14.953	205	54.90	62
Mai	9	5.338	141	70.15	65	12.240	136	27.22	63	41.361	138	45.93	39	14.748	207	55.52	18
	19	5.197	131	70.80	57	12.104	128	27.85	60	41.223	131	45.54	58	14.541	204	55.70	25
	29	5.066	118	71.37	47	11.976	115	28.45	55	41.092	121	44.96	77	14.337	195	55.45	67
Juni	8	4.948	101	71.84	37	11.861	99	29.00	48	40.971	106	44.19	94	14.142	181	54.78	107
	18	4.847	81	72.21	25	11.762	81	29.48	41	40.865	90	43.25	108	13.961	162	53.71	145
	28	4.766	60	72.46	13	11.681	59	29.89	33	40.775	70	42.17	118	13.799	139	52.26	177
Juli	8	4.706	37	72.59	0	11.622	37	30.22	23	40.705	50	40.99	126	13.660	113	50.49	205
	18	4.669	12	72.59	13	11.585	14	30.45	12	40.655	27	39.73	129	13.547	81	48.44	227
	28	4.657	13	72.46	28	11.571	11	30.57	1	40.628	1	38.44	128	13.466	47	46.17	242
Aug.	7	4.670	41	72.18	43	11.582	38	30.56	15	40.627	25	37.16	121	13.419	8	43.75	249
	17	4.711	69	71.75	60	11.620	65	30.41	31	40.652	54	35.95	110	13.411	34	41.26	247
	27	4.780	99	71.15	78	11.685	95	30.10	49	40.706	85	34.85	92	13.445	78	38.79	235
Sept.	6	4.879	130	70.37	95	11.780	125	29.61	69	40.791	117	33.93	69	13.523	125	36.44	215
	16	5.009	162	69.42	114	11.905	158	28.92	90	40.908	152	33.24	41	13.648	172	34.29	185
	26	5.171	195	68.28	133	12.063	190	28.02	110	41.060	185	32.83	9	13.820	220	32.44	147
Okt.	6	5.366	228	66.95	149	12.253	222	26.92	130	41.245	219	32.74	27	14.040	265	30.97	101
	16	5.594	258	65.46	164	12.475	253	25.62	150	41.464	250	33.01	64	14.305	306	29.96	49
	26	5.852	286	63.82	175	12.728	280	24.12	165	41.714	277	33.65	101	14.611	340	29.47	7
Nov.	5	6.138	308	62.07	182	13.008	302	22.47	177	41.991	300	34.66	137	14.951	365	29.54	63
	15	6.446	324	60.25	184	13.310	318	20.70	185	42.291	315	36.03	170	15.316	381	30.17	119
	25	6.770	331	58.41	180	13.628	325	18.85	185	42.606	320	37.73	197	15.697	386	31.36	173
Dez.	5	7.101	329	56.61	170	13.953	322	17.00	180	42.926	316	39.70	218	16.083	377	33.09	221
	15	7.430	316	54.91	153	14.275	310	15.20	170	43.242	302	41.88	232	16.460	355	35.30	262
	25	7.746	293	53.38	133	14.585	286	13.50	152	43.544	278	44.20	239	16.815	322	37.92	294
	35	8.039		52.05		14.871		11.98		43.822		46.59		17.137		40.86	
Mittl. Ort		3.815		81.63		10.702		40.36		39.704		24.60		12.801		26.70	
sec δ, tg δ		1.046		+0.307		1.023		+0.217		1.023		−0.214		1.342		−0.895	
a, a'		+3.3		−17.5		+3.2		−17.6		+2.9		−17.7		+2.5		−17.9	
b, b'		−0.02		− 0.48		−0.01		− 0.48		+0.01		− 0.47		+0.05		− 0.45	

Scheinbare Sternörter 1940

Tag	384) ζ Leonis AR.		Dekl.		383) λ Ursae maj. AR.		Dekl.		386) μ Ursae maj. AR.		Dekl.		387) 30 H.Ursae maj. AR.		Dekl.	
1940	$10^h\ 13^m$		$+23°\ 42'$		$10^h\ 13^m$		$+43°\ 12'$		$10^h\ 18^m$		$+41°\ 47'$		$10^h\ 19^m$		$+65°\ 51'$	
	s		″		s		″		s		″		s		″	
Jan. 1	22.539	290	46.52	93	30.321	348	33.97	3	46.832	346	48.28	14	51.05	57	51.77	86
11	22.829	252	45.59	61	30.669	302	33.94	41	47.178	301	48.14	30	51.62	48	52.63	138
21	23.081	206	44.98	27	30.971	246	34.35	81	47.479	249	48.44	71	52.10	40	54.01	184
31	23.287	155	44.71	4	31.217	185	35.16	117	47.728	188	49.15	107	52.50	30	55.85	222
Febr. 10	23.442	102	44.75	33	31.402	119	36.33	147	47.916	124	50.22	138	52.80	19	58.07	250
20	24 23.544	49	45.08	59	24 31.521	54	37.80	169	25 48.040	61	51.60	161	26 52.99	8	60.57	268
29	23.593	0	45.67	78	31.575	9	39.49	182	48.101	1	53.21	177	53.07	4	63.25	274
März 10	23.593	45	46.45	93	31.566	66	41.31	187	48.100	57	54.98	183	53.03	13	65.99	269
20	23.548	82	47.38	101	31.500	114	43.18	184	48.043	105	56.81	181	52.90	23	68.68	253
30	23.466	112	48.39	103	31.386	153	45.02	173	47.938	143	58.62	171	52.67	30	71.21	227
Apr. 9	23.354	133	49.42	102	31.233	181	46.75	153	47.795	172	60.33	155	52.37	36	73.48	192
19	23.221	145	50.44	95	31.052	199	48.28	129	47.623	190	61.88	132	52.01	40	75.40	151
29	23.076	150	51.39	84	30.853	207	49.57	102	47.433	199	63.20	106	51.61	42	76.91	106
Mai 9	22.926	149	52.23	71	30.646	206	50.59	70	47.234	198	64.26	75	51.19	42	77.97	58
19	22.777	140	52.94	57	30.440	197	51.29	36	47.036	191	65.01	43	50.77	42	78.55	8
29	22.637	128	53.51	40	30.243	182	51.65	3	46.845	177	65.44	11	50.35	40	78.63	41
Juni 8	22.509	112	53.91	23	30.061	160	51.68	30	46.668	157	65.55	22	49.95	36	78.22	88
18	22.397	92	54.14	5	29.901	134	51.38	62	46.511	134	65.33	54	49.59	31	77.34	134
28	22.305	71	54.19	13	29.767	106	50.76	93	46.377	106	64.79	83	49.28	26	76.00	175
Juli 8	22.234	47	54.06	30	29.661	74	49.83	121	46.271	77	63.96	112	49.02	21	74.25	211
18	22.187	22	53.76	47	29.587	41	48.62	147	46.194	44	62.84	139	48.81	14	72.14	244
28	22.165	4	53.29	65	29.546	6	47.15	171	46.150	11	61.45	162	48.67	7	69.70	271
Aug. 7	22.169	32	52.64	83	29.540	31	45.44	191	46.139	24	59.83	183	48.60	0	66.99	292
17	22.201	62	51.81	101	29.571	69	43.53	208	46.163	61	58.00	201	48.60	7	64.07	307
27	22.263	93	50.80	118	29.640	109	41.45	223	46.224	100	55.99	217	48.67	15	61.00	318
Sept. 6	22.356	125	49.62	135	29.749	149	39.22	234	46.324	140	53.82	229	48.82	22	57.82	321
16	22.481	159	48.27	151	29.898	190	36.88	241	46.464	180	51.53	238	49.04	29	54.61	318
26	22.640	194	46.76	166	30.088	232	34.47	244	46.644	222	49.15	242	49.33	36	51.43	309
Okt. 6	22.834	228	45.10	178	30.320	274	32.03	243	46.866	262	46.73	242	49.69	44	48.34	293
16	23.062	260	43.32	188	30.594	312	29.60	235	47.128	302	44.31	237	50.13	50	45.41	270
26	23.322	291	41.44	193	30.906	347	27.25	223	47.430	338	41.94	226	50.63	55	42.71	239
Nov. 5	23.613	316	39.51	194	31.253	377	25.02	205	47.768	367	39.68	209	51.18	61	40.32	203
15	23.929	333	37.57	188	31.630	399	22.97	179	48.135	390	37.59	185	51.79	64	38.29	160
25	24.262	343	35.69	178	32.029	410	21.18	148	48.525	402	35.74	156	52.43	66	36.69	110
Dez. 5	24.605	343	33.91	160	32.439	410	19.70	112	48.927	403	34.18	121	53.09	66	35.59	58
15	24.948	331	32.31	137	32.849	396	18.58	71	49.330	392	32.97	81	53.75	64	35.01	2
25	25.279	309	30.94	110	33.245	371	17.87	28	49.722	367	32.16	39	54.39	60	34.99	53
35	25.588		29.84		33.616		17.59		50.089		31.77		54.99		35.52	
Mittl. Ort	21.380		61.28		29.160		53.18		45.719		67.24		49.71		74.44	
sec δ, tg δ	1.092		+0.439		1.372		+0.940		1.341		+0.894		2.446		+2.233	
a, *a′*	+3.3		−17.9		+3.6		−17.9		+3.6		−18.1		+4.3		−18.2	
b, *b′*	−0.03		− 0.45		−0.06		− 0.45		−0.05		− 0.43		−0.13		− 0.42	

Tag	389) μ Hydrae AR.		389) μ Hydrae Dekl.		391) J Carinae AR.		391) J Carinae Dekl.		392) α Antliae AR.		392) α Antliae Dekl.		390) β Leonis min. AR.		390) β Leonis min. Dekl.	
1940	$10^h\ 23^m$		−16° 31′		$10^h\ 23^m$		−73° 43′		$10^h\ 24^m$		−30° 45′		$10^h\ 24^m$		+37° 0′	
	s		″		s		″		s		″		s		″	
Jan. 1	12.596	272	48.81	253	17.31	63	23.95	303	25.808	287	40.64	287	26.246	332	37.21	41
11	12.868	235	51.34	252	17.94	52	26.98	341	26.095	246	43.51	298	26.578	290	36.80	1
21	13.103	191	53.86	244	18.46	39	30.39	366	26.341	199	46.49	299	26.868	241	36.81	41
31	13.294	144	56.30	229	18.85	25	34.05	383	26.540	147	49.48	294	27.109	185	37.22	78
Febr. 10	13.438	95	58.59	210	19.10	12	37.88	389	26.687	94	52.42	281	27.294	125	38.00	109
20	27 13.533	47	60.69	188	27 19.22	2	41.77	385	27 26.781	43	55.23	261	27 27.419	66	39.09	135
29	13.580	2	62.57	162	19.20	15	45.62	373	26.824	5	57.84	238	27.485	8	40.44	153
März 10	13.582	37	64.19	135	19.05	26	49.35	352	26.819	49	60.22	210	27.493	44	41.97	162
20	13.545	72	65.54	108	18.79	38	52.87	324	26.770	85	62.32	179	27.449	89	43.59	164
30	13.473	98	66.62	80	18.41	46	56.11	289	26.685	114	64.11	145	27.360	125	45.23	159
Apr. 9	13.375	118	67.42	52	17.95	54	59.00	250	26.571	137	65.56	112	27.235	153	46.82	146
19	13.257	131	67.94	25	17.41	60	61.50	204	26.434	152	66.68	76	27.082	170	48.28	128
29	13.126	137	68.19	0	16.81	65	63.54	155	26.282	161	67.44	40	26.912	179	49.56	106
Mai 9	12.989	138	68.19	26	16.16	68	65.09	104	26.121	164	67.84	4	26.733	179	50.62	81
19	12.851	135	67.93	50	15.48	68	66.13	49	25.957	162	67.88	31	26.554	174	51.43	53
29	12.716	126	67.43	71	14.80	69	66.62	5	25.795	154	67.57	65	26.380	161	51.96	24
Juni 8	12.590	116	66.72	92	14.11	66	66.57	59	25.641	144	66.92	98	26.219	144	52.20	6
18	12.474	101	65.80	110	13.45	62	65.98	112	25.497	128	65.94	127	26.075	123	52.14	34
28	12.373	84	64.70	124	12.83	57	64.86	161	25.369	111	64.67	153	25.952	99	51.80	62
Juli 8	12.289	65	63.46	136	12.26	49	63.25	206	25.258	89	63.14	175	25.853	73	51.18	88
18	12.224	43	62.10	142	11.77	41	61.19	244	25.169	65	61.39	191	25.780	43	50.30	113
28	12.181	18	60.68	144	11.36	31	58.75	275	25.104	37	59.48	201	25.737	14	49.17	137
Aug. 7	12.163	8	59.24	141	11.05	19	56.00	298	25.067	6	57.47	205	25.723	18	47.80	157
17	12.171	37	57.83	132	10.86	7	53.02	310	25.061	27	55.42	200	25.741	52	46.23	177
27	12.208	68	56.51	115	10.79	7	49.92	312	25.088	65	53.42	188	25.793	88	44.46	194
Sept. 6	12.276	103	55.36	94	10.86	20	46.80	302	25.153	105	51.54	168	25.881	125	42.52	208
16	12.379	138	54.42	66	11.06	34	43.78	281	25.258	145	49.86	140	26.006	164	40.44	220
26	12.517	174	53.76	34	11.40	46	40.97	249	25.403	187	48.46	104	26.170	203	38.24	227
Okt. 6	12.691	211	53.42	2	11.86	59	38.48	205	25.590	227	47.42	63	26.373	243	35.97	232
16	12.902	244	53.44	42	12.45	70	36.43	154	25.817	265	46.79	16	26.616	281	33.65	230
26	13.146	275	53.86	83	13.15	77	34.89	95	26.082	298	46.63	33	26.897	315	31.35	225
Nov. 5	13.421	300	54.69	122	13.92	84	33.94	31	26.380	325	46.96	83	27.212	345	29.10	212
15	13.721	317	55.91	158	14.76	87	33.63	36	26.705	343	47.79	132	27.557	367	26.98	194
25	14.038	325	57.49	191	15.63	86	33.99	102	27.048	350	49.11	177	27.924	380	25.04	169
Dez. 5	14.363	324	59.40	217	16.49	83	35.01	165	27.398	347	50.88	217	28.304	383	23.35	138
15	14.687	312	61.57	236	17.32	78	36.66	223	27.745	333	53.05	249	28.687	373	21.97	104
25	14.999	290	63.93	248	18.10	70	38.89	275	28.078	306	55.54	275	29.060	351	20.93	64
35	15.289		66.41		18.80		41.64		28.384		58.29		29.411		20.29	
Mittl. Ort	11.199		45.84		12.62		33.47		24.192		41.76		25.182		55.14	
sec δ, tg δ	1.043		−0.297		3.568		−3.425		1.164		−0.595		1.252		+0.754	
a, a'	+2.9		−18.3		+1.2		−18.3		+2.8		−18.3		+3.5		−18.3	
b, b'	+0.02		− 0.41		+0.21		− 0.41		+0.04		− 0.41		−0.05		− 0.41	

Scheinbare Sternörter 1940

Tag	393) 196 G. Carinae AR.		393) Dekl.		394) 36 Ursae maj. AR.		394) Dekl.	
1940	$10^h\ 25^m$		$-58°\ 25'$		$10^h\ 26^m$		$+56°\ 16'$	
	s		″		s		″	
Jan. 1	42.913	395	49.75	312	49.119	442	58.67	41
11	43.308	331	52.87	343	49.561	389	59.08	91
21	43.639	258	56.30	361	49.950	323	59.99	137
31	43.897	181	59.91	371	50.273	246	61.36	177
Febr. 10	44.078	102	63.62	371	50.519	163	63.13	208
20	44.180	25	67.33	362	50.682	80	65.21	230
29*)	[27] 44.205	48	70.95	345	[28] 50.762	1	67.51	242
März 10	44.157	113	74.40	320	50.761	78	69.93	242
20	44.044	171	77.60	289	50.683	144	72.35	234
30	43.873	220	80.49	253	50.539	199	74.69	215
Apr. 9	43.653	259	83.02	213	50.340	242	76.84	189
19	43.394	289	85.15	167	50.098	272	78.73	156
29	43.105	310	86.82	120	49.826	289	80.29	117
Mai 9	42.795	321	88.02	71	49.537	293	81.46	75
19	42.474	325	88.73	20	49.244	287	82.21	32
29	42.149	319	88.93	30	48.957	270	82.53	11
Juni 8	41.830	306	88.63	79	48.687	247	82.42	55
18	41.524	286	87.84	127	48.440	216	81.87	96
28	41.238	258	86.57	171	48.224	179	80.91	135
Juli 8	40.980	221	84.86	209	48.045	139	79.56	170
18	40.759	177	82.77	242	47.906	96	77.86	201
28	40.582	128	80.35	267	47.810	48	75.85	230
Aug. 7	40.454	70	77.68	283	47.762	1	73.55	252
17	40.384	8	74.85	291	47.763	51	71.03	270
27	40.376	59	71.94	287	47.814	104	68.33	284
Sept. 6	40.435	130	69.07	273	47.918	159	65.49	293
16	40.565	201	66.34	249	48.077	214	62.56	296
26	40.766	271	63.85	213	48.291	268	59.60	292
Okt. 6	41.037	336	61.72	169	48.559	323	56.68	284
16	41.373	396	60.03	116	48.882	374	53.84	269
26	41.769	446	58.87	57	49.256	421	51.15	246
Nov. 5	42.215	482	58.30	5	49.677	460	48.69	217
15	42.697	505	58.35	68	50.137	490	46.52	181
25	43.202	510	59.03	131	50.627	508	44.71	140
Dez. 5	43.712	498	60.34	190	51.135	511	43.31	93
15	44.210	470	62.24	242	51.646	499	42.38	42
25	44.680	426	64.66	287	52.145	470	41.96	9
35	45.106		67.53		52.615		42.05	
Mittl. Ort	40.285		57.27		48.018		80.25	
sec δ, tg δ	1.910		−1.628		1.802		+1.499	
a, *a′*	+2.2		−18.4		+3.9		−18.4	
b, *b′*	+0.10		− 0.40		−0.09		− 0.40	

Tag	395) 9 H. Draconis AR.		395) Dekl.		404) 33 Sextantis AR.		404) Dekl.	
1940	$10^h\ 29^m$		$+76°\ 0'$		$10^h\ 38^m$		$-1°\ 25'$	
	s		″		s		″	
Jan. 1	64.50	91	59.00	110	22.172	279	39.31	204
11	65.41	79	60.10	164	22.451	247	41.35	191
21	66.20	65	61.74	212	22.698	206	43.26	173
31	66.85	50	63.86	252	22.904	162	44.99	150
Febr. 10	67.35	31	66.38	280	23.066	115	46.49	126
20	67.66	13	69.18	298	23.181	67	47.75	100
29*)	[28] 67.79	5	72.16	302	[1] 23.248	23	48.75	75
März 10	67.74	22	75.18	294	23.271	17	49.50	50
20	67.52	38	78.12	276	23.254	51	50.00	28
30	67.14	51	80.88	245	23.203	80	50.28	7
Apr. 9	66.63	63	83.33	207	23.123	100	50.35	10
19	66.00	70	85.40	161	23.023	114	50.25	26
29	65.30	75	87.01	111	22.909	122	49.99	39
Mai 9	64.55	78	88.12	57	22.787	125	49.60	50
19	63.77	77	88.69	3	22.662	122	49.10	60
29	63.00	74	88.72	52	22.540	116	48.50	68
Juni 8	62.26	69	88.20	104	22.424	107	47.82	73
18	61.57	62	87.16	154	22.317	94	47.09	77
28	60.95	54	85.62	198	22.223	79	46.32	79
Juli 8	60.41	43	83.64	238	22.144	63	45.53	78
18	59.98	33	81.26	273	22.081	43	44.75	76
28	59.65	21	78.53	301	22.038	21	43.99	68
Aug. 7	59.44	9	75.52	323	22.017	2	43.31	59
17	59.35	4	72.29	339	22.019	28	42.72	45
27	59.39	16	68.90	347	22.047	58	42.27	28
Sept. 6	59.55	30	65.43	349	22.105	88	41.99	7
16	59.85	42	61.94	344	22.193	122	41.92	18
26	60.27	54	58.50	331	22.315	158	42.10	44
Okt. 6	60.81	66	55.19	310	22.473	192	42.54	73
16	61.47	78	52.09	283	22.665	227	43.27	102
26	62.25	87	49.26	248	22.892	258	44.29	131
Nov. 5	63.12	95	46.78	206	23.150	285	45.60	157
15	64.07	101	44.72	157	23.435	305	47.17	179
25	65.08	105	43.15	103	23.740	318	48.96	196
Dez. 5	66.13	105	42.12	45	24.058	321	50.92	207
15	67.18	102	41.67	15	24.379	313	52.99	211
25	68.20	97	41.82	75	24.692	294	55.10	208
35	69.17		42.57		24.986		57.18	
Mittl. Ort	62.96		82.60		21.007		32.32	
sec δ, tg δ	4.140		+4.018		1.000		−0.025	
a, *a′*	+5.1		−18.5		+3.1		−18.8	
b, *b′*	−0.25		− 0.38		0.00		− 0.35	

*) Bei Stern 404) lies März 1.

Tag	406) ϑ Carinae AR.		406) ϑ Carinae Dekl.		407) 42 Leonis min. AR.		407) 42 Leonis min. Dekl.		408) μ Velorum AR.		408) μ Velorum Dekl.		409) 53 Leonis AR.		409) 53 Leonis Dekl.	
1940	$10^h\ 40^m$	Diff.	$-64°\ 4'$	Diff.	$10^h\ 42^m$	Diff.	$+30°\ 59'$	Diff.	$10^h\ 44^m$	Diff.	$-49°\ 6'$	Diff.	$10^h\ 46^m$	Diff.	$+10°\ 51'$	Diff.
	s		"		s		"		s		"		s		"	
Jan. 1	51.65	48	37.05	297	32.914	323	39.51	80	13.034	360	2.56	297	7.288	291	36.87	162
11	52.13	40	40.02	332	33.237	289	38.71	41	13.394	311	5.53	323	7.579	260	35.25	138
21	52.53	33	43.34	357	33.526	245	38.30	2	13.705	254	8.76	340	7.839	220	33.87	111
31	52.86	23	46.91	373	33.771	194	38.28	36	13.959	193	12.16	348	8.059	175	32.76	82
Febr. 10	53.09	15	50.64	378	33.965	139	38.64	70	14.152	128	15.64	347	8.234	127	31.94	52
20	53.24	5	54.42	375	34.104	84	39.34	98	14.280	65	19.11	338	8.361	80	31.42	24
März 1	53.29	3	58.17	362	34.188	31	40.32	121	14.345	5	22.49	320	8.441	33	31.18	1
10	[2] 53.26	11	61.79	342	[3] 34.219	19	41.53	136	[3] 14.350	50	25.69	297	[3] 8.474	9	31.19	23
20	53.15	18	65.21	314	34.200	61	42.89	144	14.300	98	28.66	267	8.465	45	31.42	41
30	52.97	24	68.35	281	34.139	97	44.33	145	14.202	139	31.33	234	8.420	74	31.83	54
Apr. 9	52.73	30	71.16	243	34.042	124	45.78	139	14.063	173	33.67	197	8.346	98	32.37	65
19	52.43	33	73.59	199	33.918	143	47.17	129	13.890	199	35.64	155	8.248	113	33.02	71
29	52.10	37	75.58	153	33.775	154	48.46	112	13.691	217	37.19	112	8.135	123	33.73	72
Mai 9	51.73	38	77.11	103	33.621	158	49.58	92	13.474	228	38.31	68	8.012	126	34.45	73
19	51.35	40	78.14	51	33.463	155	50.50	71	13.246	234	38.99	21	7.886	124	35.18	69
29	50.95	40	78.65	1	33.308	147	51.21	46	13.012	232	39.20	24	7.762	119	35.87	65
Juni 8	50.55	39	78.64	53	33.161	136	51.67	21	12.780	226	38.96	70	7.643	109	36.52	58
18	50.16	37	78.11	103	33.025	119	51.88	4	12.554	213	38.26	112	7.534	97	37.10	51
28	49.79	34	77.08	151	32.906	99	51.84	30	12.341	194	37.14	152	7.437	83	37.61	42
Juli 8	49.45	30	75.57	194	32.807	79	51.54	54	12.147	169	35.62	187	7.354	65	38.03	30
18	49.15	26	73.63	231	32.728	55	51.00	78	11.978	140	33.75	218	7.289	47	38.33	19
28	48.89	19	71.32	262	32.673	29	50.22	101	11.838	104	31.57	240	7.242	25	38.52	6
Aug. 7	48.70	13	68.70	283	32.644	0	49.21	123	11.734	62	29.17	256	7.217	2	38.58	10
17	48.57	6	65.87	296	32.644	30	47.98	144	11.672	17	26.61	263	7.215	25	38.48	28
27	48.51	3	62.91	299	32.674	62	46.54	164	11.655	35	23.98	260	7.240	52	38.20	46
Sept. 6	48.54	12	59.92	290	32.736	97	44.90	181	11.690	89	21.38	247	7.292	84	37.74	66
16	48.66	19	57.02	269	32.833	134	43.09	197	11.779	147	18.91	224	7.376	118	37.08	89
26	48.85	29	54.33	239	32.967	173	41.12	210	11.926	204	16.67	191	7.494	153	36.19	111
Okt. 6	49.14	37	51.94	198	33.140	212	39.02	219	12.130	260	14.76	150	7.647	188	35.08	133
16	49.51	44	49.96	148	33.352	249	36.83	225	12.390	312	13.26	101	7.835	224	33.75	154
26	49.95	51	48.48	91	33.601	286	34.58	226	12.702	357	12.25	47	8.059	257	32.21	172
Nov. 5	50.46	55	47.57	29	33.887	317	32.32	220	13.059	394	11.78	11	8.316	285	30.49	186
15	51.01	59	47.28	36	34.204	341	30.12	209	13.453	419	11.89	71	8.601	308	28.63	197
25	51.60	59	47.64	100	34.545	357	28.03	191	13.872	431	12.60	129	8.909	322	26.66	200
Dez. 5	52.19	59	48.64	162	34.902	364	26.12	167	14.303	428	13.89	184	9.231	327	24.66	197
15	52.78	55	50.26	218	35.266	358	24.45	137	14.731	412	15.73	232	9.558	322	22.69	189
25	53.33	52	52.44	268	35.624	340	23.08	102	15.143	382	18.05	273	9.880	306	20.80	173
35	53.85		55.12		35.964		22.06		15.525		20.78		10.186		19.07	
Mittl. Ort	48.67		46.58		31.970		55.89		11.009		9.44		6.259		47.46	
sec δ, tg δ	2.288		−2.058		1.167		+0.601		1.527		−1.155		1.018		+0.192	
a, a'	+2.1		−18.9		+3.3		−18.9		+2.6		−19.0		+3.2		−19.0	
b, b'	+0.13		− 0.34		−0.04		− 0.33		+0.07		− 0.32		−0.01		− 0.32	

Scheinbare Sternörter 1940

Tag		415) 239 G. Velorum AR.	Δ	415) Dekl.	Δ	416) β Ursae maj. AR.	Δ	416) Dekl.	Δ
1940		10h 57m		−41° 54′		10h 58m		+56° 41′	
Jan.	1	25.443	342	7.44	283	14.746	471	54.31	7
	11	25.785	301	10.27	306	15.217	426	54.38	62
	21	26.086	252	13.33	320	15.643	367	55.00	113
	31	26.338	199	16.53	325	16.010	296	56.13	159
Febr.	10	26.537	142	19.78	322	16.306	217	57.72	197
	20	26.679	85	23.00	312	16.523	135	59.69	227
März	1	26.764	31	26.12	294	16.658	53	61.96	245
	10	[6] 26.795	19	29.06	271	[7] 16.711	25	64.41	254
	20	26.776	62	31.77	243	16.686	96	66.95	251
	30	26.714	100	34.20	212	16.590	158	69.46	238
Apr.	9	26.614	131	36.32	177	16.432	208	71.84	216
	19	26.483	155	38.09	139	16.224	247	74.00	187
	29	26.328	172	39.48	100	15.977	272	75.87	151
Mai	9	26.156	183	40.48	59	15.705	286	77.38	110
	19	25.973	189	41.07	18	15.419	290	78.48	68
	29	25.784	191	41.25	24	15.129	283	79.16	22
Juni	8	25.593	186	41.01	64	14.846	269	79.38	23
	18	25.407	177	40.37	102	14.577	246	79.15	66
	28	25.230	163	39.35	138	14.331	217	78.49	109
Juli	8	25.067	144	37.97	169	14.114	183	77.40	149
	18	24.923	122	36.28	197	13.931	144	75.91	185
	28	24.801	93	34.31	217	13.787	103	74.06	218
Aug.	7	24.708	59	32.14	230	13.684	56	71.88	246
	17	24.649	21	29.84	236	13.628	7	69.42	269
	27	24.628	22	27.48	232	13.621	45	66.73	289
Sept.	6	24.650	70	25.16	220	13.666	100	63.84	302
	16	24.720	119	22.96	199	13.766	158	60.82	310
	26	24.839	170	20.97	168	13.924	215	57.72	313
Okt.	6	25.009	221	19.29	129	14.139	274	54.59	308
	16	25.230	270	18.00	83	14.413	332	51.51	296
	26	25.500	313	17.17	32	14.745	386	48.55	278
Nov.	5	25.813	349	16.85	22	15.131	433	45.77	252
	15	26.162	376	17.07	77	15.564	473	43.25	218
	25	26.538	391	17.84	131	16.037	500	41.07	178
Dez.	5	26.929	393	19.15	180	16.537	514	39.29	131
	15	27.322	383	20.95	227	17.051	512	37.98	80
	25	27.705	360	23.22	261	17.563	493	37.18	25
	35	28.065		25.83		18.056		36.93	
Mittl. Ort		23.736		13.39		14.023		76.04	
sec δ, tg δ		1.344		−0.897		1.822		+1.523	
a, *a′*		+2.7		−19.3		+3.6		−19.3	
b, *b′*		+0.06		− 0.27		−0.10		− 0.27	

Tag		417) α Ursae maj. AR.	Δ	417) Dekl.	Δ	418) χ Leonis AR.	Δ	418) Dekl.	Δ
1940		11h 0m		+62° 3′		11h 1m		+7° 39′	
Jan.	1	3.18	54	68.68	24	56.309	296	29.58	178
	11	3.72	48	68.92	81	56.605	267	27.80	156
	21	4.20	42	69.73	134	56.872	230	26.24	132
	31	4.62	34	71.07	180	57.102	186	24.92	104
Febr.	10	4.96	25	72.87	219	57.288	141	23.88	74
	20	5.21	15	75.06	247	57.429	94	23.14	46
März	1	5.36	6	77.53	265	57.523	48	22.68	20
	10	[7] 5.42	4	80.18	271	[7] 57.571	6	22.48	4
	20	5.38	12	82.89	266	57.577	30	22.52	24
	30	5.26	19	85.55	251	57.547	60	22.76	41
Apr.	9	5.07	25	88.06	226	57.487	84	23.17	53
	19	4.82	30	90.32	193	57.403	102	23.70	62
	29	4.52	33	92.25	154	57.301	114	24.32	68
Mai	9	4.19	35	93.79	109	57.187	119	25.00	70
	19	3.84	36	94.88	63	57.068	121	25.70	70
	29	3.48	35	95.51	15	56.947	117	26.40	69
Juni	8	3.13	33	95.66	34	56.830	111	27.09	65
	18	2.80	31	95.32	80	56.719	102	27.74	59
	28	2.49	27	94.52	126	56.617	90	28.33	52
Juli	8	2.22	23	93.26	167	56.527	75	28.85	44
	18	1.99	19	91.59	205	56.452	59	29.29	34
	28	1.80	13	89.54	238	56.393	39	29.63	21
Aug.	7	1.67	8	87.16	267	56.354	17	29.84	7
	17	1.59	3	84.49	291	56.337	7	29.91	10
	27	1.56	4	81.58	309	56.344	36	29.81	28
Sept.	6	1.60	11	78.49	321	56.380	66	29.53	49
	16	1.71	17	75.28	328	56.446	101	29.04	71
	26	1.88	24	72.00	327	56.547	136	28.33	96
Okt.	6	2.12	31	68.73	320	56.683	173	27.37	119
	16	2.43	37	65.53	306	56.856	209	26.18	142
	26	2.80	44	62.47	283	57.065	245	24.76	164
Nov.	5	3.24	49	59.64	254	57.310	275	23.12	182
	15	3.73	53	57.10	216	57.585	300	21.30	195
	25	4.26	57	54.94	172	57.885	317	19.35	203
Dez.	5	4.83	59	53.22	122	58.202	325	17.32	204
	15	5.42	58	52.00	67	58.527	322	15.28	199
	25	6.00	56	51.33	10	58.849	308	13.29	187
	35	6.56		51.23		59.157		11.42	
Mittl. Ort		2.49		91.19		55.347		38.73	
sec δ, tg δ		2.135		+1.887		1.009		+0.134	
a, *a′*		+3.7		−19.4		+3.1		−19.4	
b, *b′*		−0.12		− 0.26		−0.01		− 0.25	

Tag	420) ψ Ursae maj. AR.		420) Dekl.		421) β Crateris AR.		421) Dekl.		422) δ Leonis AR.		422) Dekl.		423) ϑ Leonis AR.		423) Dekl.	
1940	11h 6m		+44° 48′		11h 8m		−22° 29′		11h 10m		+20° 50′		11h 11m		+15° 44′	
	s		″		s		″		s		″		s		″	
Jan. 1	18.545	388	68.55	46	43.478	307	51.61	253	55.988	316	56.83	137	6.426	308	76.69	155
11	18.933	354	68.09	4	43.785	275	54.14	261	56.304	288	55.46	105	6.734	281	75.14	126
21	19.287	307	68.13	53	44.060	236	56.75	261	56.592	251	54.41	69	7.015	244	73.88	94
31	19.594	251	68.66	97	44.296	192	59.36	254	56.843	207	53.72	33	7.259	201	72.94	61
Febr. 10	19.845	190	69.63	136	44.488	144	61.90	241	57.050	159	53.39	1	7.460	154	72.33	29
20	20.035	125	70.99	169	44.632	97	64.31	222	57.209	109	53.40	33	7.614	107	72.04	2
März 1	20.160	61	72.68	193	44.729	52	66.53	201	57.318	61	53.73	61	7.721	60	72.06	30
10	9 20.221	1	74.61	207	9 44.781	9	68.54	176	10 57.379	16	54.34	82	10 7.781	16	72.36	53
20	20.222	54	76.68	213	44.790	29	70.30	149	57.395	25	55.16	99	7.797	23	72.89	71
30	20.168	101	78.81	208	44.761	59	71.79	122	57.370	58	56.15	109	7.774	55	73.60	84
Apr. 9	20.067	140	80.89	196	44.702	85	73.01	93	57.312	86	57.24	114	7.719	82	74.44	92
19	19.927	169	82.85	175	44.617	105	73.94	65	57.226	107	58.38	113	7.637	101	75.36	94
29	19.758	188	84.60	150	44.512	119	74.59	37	57.119	120	59.51	107	7.536	114	76.30	94
Mai 9	19.570	200	86.10	119	44.393	127	74.96	9	56.999	128	60.58	97	7.422	122	77.24	88
19	19.370	203	87.29	85	44.266	132	75.05	19	56.871	131	61.55	85	7.300	124	78.12	81
29	19.167	200	88.14	48	44.134	132	74.86	45	56.740	129	62.40	70	7.176	123	78.93	71
Juni 8	18.967	190	88.62	12	44.002	129	74.41	69	56.611	123	63.10	53	7.053	117	79.64	59
18	18.777	174	88.74	26	43.873	123	73.72	93	56.488	113	63.63	36	6.936	109	80.23	46
28	18.603	156	88.48	63	43.750	112	72.79	113	56.375	101	63.99	16	6.827	97	80.69	31
Juli 8	18.447	132	87.85	98	43.638	100	71.66	130	56.274	87	64.15	4	6.730	83	81.00	16
18	18.315	105	86.87	131	43.538	83	70.36	143	56.187	69	64.11	23	6.647	66	81.16	1
28	18.210	76	85.56	162	43.455	63	68.93	152	56.118	49	63.88	44	6.581	48	81.15	19
Aug. 7	18.134	42	83.94	190	43.392	39	67.41	155	56.069	26	63.44	65	6.533	25	80.96	37
17	18.092	7	82.04	214	43.353	11	65.86	152	56.043	0	62.79	86	6.508	1	80.59	56
27	18.085	33	79.90	236	43.342	21	64.34	143	56.043	28	61.93	107	6.507	28	80.03	77
Sept. 6	18.118	74	77.54	255	43.363	57	62.91	126	56.071	61	60.86	128	6.535	59	79.26	99
16	18.192	119	74.99	267	43.420	95	61.65	104	56.132	96	59.58	149	6.594	94	78.27	119
26	18.311	166	72.32	277	43.515	136	60.61	75	56.228	133	58.09	168	6.688	130	77.08	141
Okt. 6	18.477	214	69.55	280	43.651	177	59.86	40	56.361	172	56.41	186	6.818	168	75.67	162
16	18.691	261	66.75	279	43.828	219	59.46	1	56.533	210	54.55	201	6.986	206	74.05	180
26	18.952	306	63.96	269	44.047	257	59.45	40	56.743	248	52.54	212	7.192	243	72.25	194
Nov. 5	19.258	346	61.27	254	44.304	289	59.85	83	56.991	281	50.42	218	7.435	275	70.31	205
15	19.604	380	58.73	231	44.593	315	60.68	124	57.272	309	48.24	219	7.710	303	68.26	211
25	19.984	405	56.42	202	44.908	333	61.92	162	57.581	330	46.05	212	8.013	322	66.15	210
Dez. 5	20.389	418	54.40	164	45.241	340	63.54	196	57.911	340	43.93	199	8.335	332	64.05	203
15	20.807	418	52.76	121	45.581	335	65.50	224	58.251	339	41.94	181	8.667	332	62.02	189
25	21.225	404	51.55	75	45.916	320	67.74	243	58.590	329	40.13	154	8.999	320	60.13	169
35	21.629		50.80		46.236		70.17		58.919		38.59		9.319		58.44	
Mittl. Ort	17.854		88.00		42.226		52.54		55.179		69.88		5.580		88.16	
sec δ, tg δ	1.410		+0.994		1.082		−0.414		1.070		+0.381		1.039		+0.282	
a, a′	+3.4		−19.5		+3.0		−19.5		+3.2		−19.6		+3.2		−19.6	
b, b′	−0.06		− 0.23		+0.03		− 0.22		−0.02		− 0.21		−0.02		− 0.21	

Scheinbare Sternörter 1940

Tag	425) ν Ursae maj. AR.		Dekl.		426) δ Crateris AR.		Dekl.		427) σ Leonis AR.		Dekl.		428) π Centauri AR.		Dekl.	
1940	$11^h\ 15^m$		$+33°24'$		$11^h\ 16^m$		$-14°27'$		$11^h\ 18^m$		$+6°\ 21'$		$11^h\ 18^m$		$-54°\ 9'$	
	s		"		s		"		s		"		s		"	
Jan. 1	15.223	347	62.48	96	21.404	303	14.24	236	3.432	303	22.18	185	17.805	425	32.81	266
11	15.570	317	61.52	52	21.707	274	16.60	236	3.735	276	20.33	166	18.230	380	35.47	301
21	15.887	277	61.00	9	21.981	238	18.96	229	4.011	241	18.67	141	18.610	324	38.48	326
31	16.164	231	60.91	33	22.219	196	21.25	217	4.252	200	17.26	114	18.934	261	41.74	343
Febr. 10	16.395	178	61.24	72	22.415	150	23.42	199	4.452	156	16.12	85	19.195	195	45.17	351
20	16.573	123	61.96	106	22.565	105	25.41	178	4.608	110	15.27	56	19.390	128	48.68	349
März 1	16.696	69	63.02	133	22.670	61	27.19	155	4.718	65	14.71	29	19.518	63	52.17	340
11	16.765	17	64.35	153	22.731	19	28.74	130	4.783	23	14.42	4	19.581	0	55.57	324
20	16.782	29	65.88	164	22.750	17	30.04	104	4.806	14	14.38	18	19.581	56	58.81	300
30	16.753	68	67.52	169	22.733	48	31.08	79	4.792	45	14.56	36	19.525	105	61.81	272
Apr. 9	16.685	101	69.21	165	22.685	73	31.87	54	4.747	70	14.92	49	19.420	149	64.53	238
19	16.584	126	70.86	155	22.612	92	32.41	31	4.677	90	15.41	60	19.271	184	66.91	201
29	16.458	143	72.41	139	22.520	106	32.72	8	4.587	104	16.01	67	19.087	213	68.92	160
Mai 9	16.315	153	73.80	118	22.414	115	32.80	14	4.483	112	16.68	70	18.874	236	70.52	115
19	16.162	157	74.98	94	22.299	120	32.66	34	4.371	115	17.38	72	18.638	251	71.67	69
29	16.005	156	75.92	68	22.179	121	32.32	53	4.256	115	18.10	71	18.387	260	72.36	23
Juni 8	15.849	149	76.60	39	22.058	119	31.79	70	4.141	112	18.81	68	18.127	262	72.59	25
18	15.700	139	76.99	10	21.939	112	31.09	86	4.029	105	19.49	63	17.865	257	72.34	71
28	15.561	125	77.09	20	21.827	104	30.23	99	3.924	95	20.12	57	17.608	246	71.63	115
Juli 8	15.436	108	76.89	49	21.723	93	29.24	109	3.829	84	20.69	49	17.362	228	70.48	157
18	15.328	87	76.40	76	21.630	78	28.15	117	3.745	69	21.18	39	17.134	201	68.91	193
28	15.241	65	75.64	104	21.552	60	26.98	119	3.676	52	21.57	28	16.933	168	66.98	224
Aug. 7	15.176	39	74.60	130	21.492	38	25.79	118	3.624	31	21.85	13	16.765	126	64.74	247
17	15.137	10	73.30	155	21.454	13	24.61	111	3.593	8	21.98	3	16.639	78	62.27	263
27	15.127	23	71.75	178	21.441	16	23.50	100	3.585	20	21.95	21	16.561	22	59.64	269
Sept. 6	15.150	58	69.97	198	21.457	49	22.50	82	3.605	51	21.74	42	16.539	39	56.95	265
16	15.208	96	67.99	216	21.506	86	21.68	59	3.656	84	21.32	65	16.578	104	54.30	250
26	15.304	138	65.83	231	21.592	124	21.09	32	3.740	120	20.67	89	16.682	172	51.80	226
Okt. 6	15.442	180	63.52	243	21.716	164	20.77	0	3.860	159	19.78	113	16.854	239	49.54	191
16	15.622	222	61.09	249	21.880	204	20.77	35	4.019	197	18.65	138	17.093	303	47.63	148
26	15.844	263	58.60	250	22.084	242	21.12	71	4.216	233	17.27	160	17.396	361	46.15	97
Nov. 5	16.107	301	56.10	246	22.326	275	21.83	108	4.449	266	15.67	180	17.757	410	45.18	40
15	16.408	332	53.64	234	22.601	302	22.91	142	4.715	294	13.87	195	18.167	446	44.78	19
25	16.740	355	51.30	215	22.903	320	24.33	173	5.009	313	11.92	204	18.613	469	44.97	78
Dez. 5	17.095	368	49.15	189	23.223	329	26.06	199	5.322	324	9.88	209	19.082	477	45.75	136
15	17.463	370	47.26	157	23.552	327	28.05	218	5.646	324	7.79	204	19.559	469	47.11	191
25	17.833	360	45.69	120	23.879	315	30.23	231	5.970	314	5.75	194	20.028	444	49.02	238
35	18.193		44.49		24.194		32.54		6.284		3.81		20.472		51.40	
Mittl. Ort	14.534		79.03		20.301		12.92		2.551		30.42		15.794		42.91	
sec δ, tg δ	1.198		+0.660		1.033		−0.258		1.006		+0.111		1.708		−1.385	
a, a'	+3.2		−19.7		+3.0		−19.7		+3.1		−19.7		+2.7		−19.7	
b, b'	−0.04		− 0.19		+0.02		− 0.19		−0.01		− 0.18		+0.09		− 0.18	

Tag	429) Grb 1771 UMaj				433) λ Draconis				434) ξ Hydrae				436) λ Centauri			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1940	$11^h\ 19^m$		$+64°\ 38'$		$11^h\ 27^m$		$+69°\ 39'$		$11^h\ 30^m$		$-31°\ 31'$		$11^h\ 33^m$		$-62°\ 41'$	
	s		"		s		"		s		"		s		"	
Jan. 1	18.77	60	69.99	11	52.01	71	21.63	15	4.038	335	26.48	252	2.54	53	2.68	244
11	19.37	54	70.10	69	52.72	66	21.78	76	4.373	304	29.00	271	3.07	49	5.12	285
21	19.91	48	70.79	125	53.38	59	22.54	134	4.677	266	31.71	280	3.56	41	7.97	320
31	20.39	40	72.04	176	53.97	49	23.88	186	4.943	221	34.51	282	3.97	34	11.17	344
Febr. 10	20.79	31	73.80	218	54.46	38	25.74	230	5.164	173	37.33	277	4.31	26	14.61	358
20	21.10	20	75.98	250	54.84	26	28.04	263	5.337	124	40.10	264	4.57	18	18.19	365
März 1	21.30	10	78.48	273	55.10	14	30.67	286	5.461	76	42.74	248	4.75	10	21.84	362
11	21.40	0	81.21	282	55.24	1	33.53	296	5.537	32	45.22	226	4.85	2	25.46	351
20	(12) 21.40	9	84.03	280	(14) 55.25	10	36.49	294	(15) 5.569	10	47.48	202	(15) 4.87	5	28.97	333
30	21.31	18	86.83	268	55.15	21	39.43	280	5.559	44	49.50	174	4.82	11	32.30	308
Apr. 9	21.13	25	89.51	245	54.94	30	42.23	257	5.515	74	51.24	145	4.71	18	35.38	278
19	20.88	31	91.96	214	54.64	38	44.80	224	5.441	99	52.69	113	4.53	22	38.16	241
29	20.57	35	94.10	175	54.26	44	47.04	183	5.342	117	53.82	82	4.31	27	40.57	201
Mai 9	20.22	38	95.85	131	53.82	48	48.87	138	5.225	131	54.64	49	4.04	30	42.58	157
19	19.84	39	97.16	83	53.34	50	50.25	87	5.094	141	55.13	16	3.74	33	44.15	109
29	19.45	40	97.99	34	52.84	51	51.12	36	4.953	146	55.29	16	3.41	35	45.24	60
Juni 8	19.05	38	98.33	17	52.33	50	51.48	17	4.807	148	55.13	48	3.06	35	45.84	10
18	18.67	36	98.16	66	51.83	48	51.31	69	4.659	145	54.65	79	2.71	36	45.94	42
28	18.31	33	97.50	113	51.35	44	50.62	119	4.514	139	53.86	107	2.35	35	45.52	91
Juli 8	17.98	29	96.37	158	50.91	39	49.43	165	4.375	129	52.79	133	2.00	33	44.61	137
18	17.69	25	94.79	199	50.52	34	47.78	209	4.246	114	51.46	153	1.67	29	43.24	181
28	17.44	19	92.80	236	50.18	28	45.69	247	4.132	95	49.93	170	1.38	26	41.43	218
Aug. 7	17.25	14	90.44	268	49.90	21	43.22	280	4.037	71	48.23	181	1.12	21	39.25	248
17	17.11	7	87.76	295	49.69	13	40.42	308	3.966	42	46.42	186	0.91	14	36.77	271
27	17.04	1	84.81	316	49.56	4	37.34	330	3.924	7	44.56	183	0.77	8	34.06	284
Sept. 6	17.03	6	81.65	331	49.52	3	34.04	346	3.917	31	42.73	171	0.69	1	31.22	287
16	17.09	14	78.34	340	49.55	13	30.58	354	3.948	74	41.02	154	0.70	9	28.35	279
26	17.23	21	74.94	342	49.68	23	27.04	355	4.022	120	39.48	127	0.79	18	25.56	260
Okt. 6	17.44	28	71.52	337	49.91	32	23.49	349	4.142	167	38.21	94	0.97	26	22.96	230
16	17.72	37	68.15	324	50.23	40	20.00	334	4.309	213	37.27	55	1.23	35	20.66	189
26	18.09	44	64.91	302	50.63	50	16.66	312	4.522	257	36.72	12	1.58	42	18.77	141
Nov. 5	18.53	50	61.89	274	51.13	58	13.54	281	4.779	296	36.60	35	2.00	49	17.36	86
15	19.03	55	59.15	236	51.71	65	10.73	242	5.075	328	36.95	82	2.49	54	16.50	25
25	19.58	60	56.79	192	52.36	70	8.31	196	5.403	349	37.77	127	3.03	57	16.25	37
Dez. 5	20.18	62	54.87	142	53.06	74	6.35	142	5.752	359	39.04	170	3.60	58	16.62	98
15	20.80	63	53.45	85	53.80	75	4.93	84	6.111	359	40.74	206	4.18	58	17.60	158
25	21.43	62	52.60	26	54.55	74	4.09	23	6.470	346	42.80	237	4.76	55	19.18	212
35	22.05		52.34		55.29		3.86		6.816		45.17		5.31		21.30	
Mittl. Ort	18.40		92.73		51.89		44.81		2.757		31.25		0.17		15.34	
sec δ, tg δ	2.337		+2.112		2.877		+2.698		1.173		−0.613		2.179		−1.936	
a, *a'*	+3.6		−19.7		+3.6		−19.8		+3.0		−19.9		+2.8		−19.9	
b, *b'*	−0.14		−0.18		−0.18		−0.14		+0.04		−0.13		+0.13		−0.12	

Scheinbare Sternörter 1940

Tag	437) υ Leonis AR.		Dekl.		440) 3 Draconis AR.		Dekl.		441) χ Ursae maj. AR.		Dekl.		444) β Leonis[1] AR.		Dekl.	
1940	11h 33m		−0° 29′		11h 39m		+67° 3′		11h 42m		+48° 6′		11h 46m		+14° 53′	
	s		″		s		″		s		″		s		″	
Jan. 1	53.389	307	37.73	205	8.56	66	74.76	8	53.650	421	24.24	72	0.648	318	76.81	171
11	53.696	282	39.78	192	9.22	61	74.68	54	54.071	395	23.52	17	0.966	297	75.10	143
21	53.978	250	41.70	173	9.83	54	75.22	113	54.466	355	23.35	36	1.263	266	73.67	111
31	54.228	211	43.43	151	10.37	47	76.35	167	54.821	303	23.71	87	1.529	227	72.56	76
Febr. 10	54.439	168	44.94	126	10.84	37	78.02	213	55.124	244	24.58	133	1.756	184	71.80	42
20	54.607	124	46.20	98	11.21	27	80.15	251	55.368	181	25.91	173	1.940	139	71.38	8
März 1	54.731	81	47.18	72	11.48	15	82.66	276	55.549	114	27.64	203	2.079	94	71.30	22
11	16 54.812	39	47.90	46	17 11.63	4	85.42	290	18 55.663	50	29.67	224	19 2.173	50	71.52	49
20	54.851	3	48.36	22	11.67	6	88.32	292	55.713	10	31.91	236	2.223	11	72.01	70
30	54.854	29	48.58	2	11.61	16	91.24	283	55.703	64	34.27	236	2.234	24	72.71	86
Apr. 9	54.825	56	48.60	17	11.45	24	94.07	263	55.639	111	36.63	227	2.210	52	73.57	97
19	54.769	76	48.43	31	11.21	31	96.70	233	55.528	148	38.90	211	2.158	76	74.54	103
29	54.693	91	48.12	44	10.90	37	99.03	196	55.380	179	41.01	186	2.082	94	75.57	103
Mai 9	54.602	102	47.68	54	10.53	41	100.99	153	55.201	199	42.87	155	1.988	107	76.60	100
19	54.500	109	47.14	61	10.12	43	102.52	105	55.002	211	44.42	120	1.881	114	77.60	93
29	54.391	111	46.53	67	9.69	44	103.57	55	54.791	217	45.62	82	1.767	119	78.53	83
Juni 8	54.280	111	45.86	70	9.25	44	104.12	3	54.574	216	46.44	41	1.648	119	79.36	72
18	54.169	107	45.16	72	8.81	42	104.15	50	54.358	208	46.85	0	1.529	116	80.08	58
28	54.062	100	44.44	71	8.39	40	103.65	98	54.150	196	46.85	42	1.413	110	80.66	42
Juli 8	53.962	92	43.73	69	7.99	36	102.67	146	53.954	179	46.43	81	1.303	101	81.08	25
18	53.870	79	43.04	65	7.63	32	101.21	190	53.775	156	45.62	120	1.202	90	81.33	8
28	53.791	65	42.39	57	7.31	26	99.31	230	53.619	130	44.42	157	1.112	74	81.41	10
Aug. 7	53.726	45	41.82	48	7.05	20	97.01	265	53.489	100	42.85	189	1.038	57	81.31	30
17	53.681	23	41.34	34	6.85	14	94.36	295	53.389	64	40.96	220	0.981	34	81.01	51
27	53.658	3	41.00	18	6.71	7	91.41	320	53.325	26	38.76	247	0.947	8	80.50	73
Sept. 6	53.661	34	40.82	1	6.64	1	88.21	338	53.299	18	36.29	269	0.939	22	79.77	95
16	53.695	68	40.83	24	6.65	9	84.83	349	53.317	65	33.60	287	0.961	57	78.82	118
26	53.763	105	41.07	49	6.74	17	81.34	354	53.382	116	30.73	300	1.018	94	77.64	140
Okt. 6	53.868	144	41.56	76	6.91	26	77.80	351	53.498	169	27.73	307	1.112	133	76.24	162
16	54.012	184	42.32	103	7.17	34	74.29	340	53.667	222	24.66	308	1.245	174	74.62	182
26	54.196	222	43.35	131	7.51	43	70.89	321	53.889	276	21.58	301	1.419	215	72.80	199
Nov. 5	54.418	257	44.66	156	7.94	50	67.68	293	54.165	325	18.57	288	1.634	252	70.81	212
15	54.675	286	46.22	179	8.44	57	64.75	257	54.490	368	15.69	265	1.886	284	68.69	220
25	54.961	308	48.01	195	9.01	63	62.18	214	54.858	402	13.04	235	2.170	309	66.49	221
Dez. 5	55.269	322	49.96	207	9.64	66	60.04	162	55.260	426	10.69	198	2.479	326	64.28	217
15	55.591	324	52.03	211	10.30	68	58.42	106	55.686	436	8.71	153	2.805	331	62.11	204
25	55.915	316	54.14	209	10.98	67	57.36	45	56.122	433	7.18	104	3.136	327	60.07	185
35	56.231		56.23		11.65		56.91		56.555		6.14		3.463		58.22	
Mittl. Ort	52.535		32.37		8.58		97.51		53.340		43.79		0.006		87.01	
sec δ, tg δ	1.000		−0.009		2.567		+2.365		1.498		+1.115		1.035		+0.266	
a, *a′*	+3.1		−19.9		+3.4		−20.0		+3.2		−20.0		+3.1		−20.0	
b, *b′*	0.00		− 0.11		−0.16		− 0.09		−0.07		− 0.07		−0.02		− 0.06	

[1]) Die jährliche Parallaxe (0.″101) ist bereits berücksichtigt.

Tag	445) β Virginis¹) AR.	Diff.	445) β Virginis¹) Dekl.	Diff.	447) γ Ursae maj. AR.	Diff.	447) γ Ursae maj. Dekl.	Diff.
1940	$11^h\ 47^m$		$+2°\ 5'$		$11^h\ 50^m$		$+54°\ 1'$	
Jan. 1	34.889	313	64.68	201	41.127	469	21.63	62
11	35.202	291	62.67	186	41.596	443	21.01	4
21	35.493	260	60.81	165	42.039	400	20.97	52
31	35.753	223	59.16	140	42.439	345	21.49	106
Febr. 10	35.976	182	57.76	113	42.784	281	22.55	155
20	36.158	138	56.63	84	43.065	211	24.10	195
März 1	36.296	95	55.79	57	43.276	137	26.05	227
11	36.391	54	55.22	30	43.413	64	28.32	248
20*)	[19] 36.445	16	54.92	7	[20] 43.477	6	30.80	258
30	36.461	16	54.85	14	43.471	68	33.38	258
Apr. 9	36.445	43	54.99	31	43.403	123	35.96	247
19	36.402	65	55.30	45	43.280	170	38.43	228
29	36.337	83	55.75	55	43.110	205	40.71	200
Mai 9	36.254	95	56.30	62	42.905	232	42.71	166
19	36.159	103	56.92	68	42.673	250	44.37	127
29	36.056	107	57.60	70	42.423	258	45.64	85
Juni 8	35.949	109	58.30	70	42.165	259	46.49	41
18	35.840	107	59.00	69	41.906	253	46.90	5
28	35.733	103	59.69	66	41.653	239	46.85	50
Juli 8	35.630	95	60.35	60	41.414	221	46.35	94
18	35.535	85	60.95	53	41.193	196	45.41	135
28	35.450	71	61.48	45	40.997	167	44.06	175
Aug. 7	35.379	54	61.93	32	40.830	133	42.31	210
17	35.325	33	62.25	18	40.697	93	40.21	242
27	35.292	7	62.43	1	40.604	48	37.79	270
Sept. 6	35.285	23	62.44	19	40.556	1	35.09	292
16	35.308	57	62.25	41	40.557	54	32.17	311
26	35.365	93	61.84	66	40.611	111	29.06	322
Okt. 6	35.458	133	61.18	91	40.722	171	25.84	328
16	35.591	174	60.27	118	40.893	232	22.56	326
26	35.765	213	59.09	143	41.125	291	19.30	317
Nov. 5	35.978	250	57.66	167	41.416	348	16.13	300
15	36.228	281	55.99	186	41.764	397	13.13	274
25	36.509	306	54.13	201	42.161	438	10.39	240
Dez. 5	36.815	321	52.12	210	42.599	467	7.99	198
15	37.136	326	50.02	211	43.066	481	6.01	151
25	37.462	321	47.91	207	43.547	480	4.50	96
35	37.783		45.84		44.027		3.54	
Mittl. Ort	34.134		70.47		40.993		42.18	
sec δ, tg δ	1.001		+0.037		1.702		+1.378	
a, a'	+3.1		−20.0		+3.1		−20.0	
b, b'	0.00		− 0.05		−0.09		− 0.04	

Tag	450) ο Virginis AR.	Diff.	450) ο Virginis Dekl.	Diff.	452) δ Centauri AR.	Diff.	452) δ Centauri Dekl.	Diff.
1940	$12^h\ 2^m$		$+9°\ 3'$		$12^h\ 5^m$		$-50°\ 23'$	
Jan. 1	9.740	319	50.77	189	15.849	435	5.96	220
11	10.059	299	48.88	167	16.284	405	8.16	257
21	10.358	272	47.21	140	16.689	363	10.73	287
31	10.630	236	45.81	109	17.052	314	13.60	307
Febr. 10	10.866	196	44.72	78	17.366	259	16.67	320
20	11.062	153	43.94	45	17.625	200	19.87	324
März 1	11.215	110	43.49	15	17.825	142	23.11	320
11	11.325	68	43.34	13	17.967	86	26.31	311
20*)	[23] 11.393	30	43.47	36	[24] 18.053	32	29.42	294
30	11.423	4	43.83	56	18.085	17	32.36	273
Apr. 9	11.419	33	44.39	70	18.068	61	35.09	245
19	11.386	58	45.09	80	18.007	99	37.54	215
29	11.328	77	45.89	86	17.908	134	39.69	181
Mai 9	11.251	91	46.75	89	17.774	162	41.50	143
19	11.160	102	47.64	87	17.612	186	42.93	102
29	11.058	109	48.51	83	17.426	205	43.95	61
Juni 8	10.949	112	49.34	76	17.221	218	44.56	17
18	10.837	112	50.10	68	17.003	225	44.73	26
28	10.725	110	50.78	58	16.778	227	44.47	69
Juli 8	10.615	105	51.36	46	16.551	222	43.78	109
18	10.510	96	51.82	32	16.329	209	42.69	147
28	10.414	84	52.14	17	16.120	189	41.22	180
Aug. 7	10.330	68	52.31	1	15.931	161	39.42	208
17	10.262	48	52.32	17	15.770	125	37.34	228
27	10.214	24	52.15	37	15.645	80	35.06	241
Sept. 6	10.190	5	51.78	59	15.565	27	32.65	246
16	10.195	39	51.19	82	15.538	31	30.19	239
26	10.234	76	50.37	106	15.569	94	27.80	223
Okt. 6	10.310	116	49.31	129	15.663	159	25.57	198
16	10.426	157	48.02	153	15.822	225	23.59	164
26	10.583	199	46.49	175	16.047	288	21.95	121
Nov. 5	10.782	238	44.74	193	16.335	344	20.74	72
15	11.020	272	42.81	206	16.679	390	20.02	18
25	11.292	299	40.75	215	17.069	425	19.84	37
Dez. 5	11.591	318	38.60	217	17.494	447	20.21	92
15	11.909	327	36.43	212	17.941	453	21.13	144
25	12.236	324	34.31	199	18.394	445	22.57	193
35	12.560		32.32		18.839		24.50	
Mittl. Ort	9.147		58.40		14.357		17.71	
sec δ, tg δ	1.013		+0.160		1.568		−1.208	
a, a'	+3.1		−20.0		+3.1		−20.0	
b, b'	−0.01		+ 0.01		+0.08		+ 0.02	

¹) Die jährliche Parallaxe (0″101) ist bereits berücksichtigt.

*) Bei Stern 450) und 452) lies März 21.

Scheinbare Sternörter 1940

Tag		453) ε Corvi				454) Br 1634 Caml				456) δ Ursae maj.				459) β Chamael.			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940		12h 7m		−22° 17′		12h 9m		+77° 56′		12h 12m		+57° 21′		12h 14m		−78° 58′	
		s		"		s		"		s		"		s		"	
Jan.	1	2.984	333	6.43	227	23.08	115	35.38	17	27.668	507	36.47	78	51.29	124	27.77	163
	11	3.317	312	8.70	237	24.23	111	35.21	48	28.175	485	35.69	18	52.53	115	29.40	217
	21	3.629	282	11.07	241	25.34	101	35.69	111	28.660	448	35.51	42	53.68	104	31.57	265
	31	3.911	245	13.48	238	26.35	90	36.80	169	29.108	395	35.93	100	54.72	90	34.22	306
Febr.	10	4.156	205	15.86	228	27.25	75	38.49	220	29.503	331	36.93	151	55.62	75	37.28	337
	20	4.361	161	18.14	215	28.00	57	40.69	262	29.834	259	38.44	197	56.37	57	40.65	359
März	1	4.522	117	20.29	197	28.57	37	43.31	292	30.093	182	40.41	233	56.94	41	44.24	374
	11	4.639	75	22.26	176	28.94	18	46.23	310	30.275	103	42.74	258	57.35	23	47.98	378
	21	24 4.714	38	24.02	153	25 29.12	2	49.33	315	25 30.378	28	45.32	272	26 57.58	5	51.76	374
	30	4.752	3	25.55	129	29.10	22	52.48	309	30.406	43	48.04	274	57.63	11	55.50	362
Apr.	9	4.755	28	26.84	104	28.88	39	55.57	290	30.363	107	50.78	267	57.52	27	59.12	343
	19	4.727	53	27.88	79	28.49	54	58.47	261	30.256	161	53.45	250	57.25	42	62.55	317
	29	4.674	74	28.67	55	27.95	67	61.08	223	30.095	207	55.95	222	56.83	56	65.72	284
Mai	9	4.600	91	29.22	30	27.28	77	63.31	178	29.888	242	58.17	189	56.27	68	68.56	245
	19	4.509	105	29.52	6	26.51	85	65.09	129	29.646	268	60.06	150	55.59	78	71.01	201
	29	4.404	115	29.58	17	25.66	89	66.38	76	29.378	284	61.56	107	54.81	87	73.02	152
Juni	8	4.289	122	29.41	41	24.77	91	67.14	20	29.094	292	62.63	60	53.94	93	74.54	100
	18	4.167	125	29.00	62	23.86	91	67.34	36	28.802	292	63.23	13	53.01	97	75.54	45
	28	4.042	126	28.38	82	22.95	88	66.98	89	28.510	283	63.36	35	52.04	98	75.99	9
Juli	8	3.916	122	27.56	99	22.07	83	66.09	142	28.227	268	63.01	81	51.06	97	75.90	65
	18	3.794	115	26.57	114	21.24	76	64.67	190	27.959	246	62.20	127	50.09	92	75.25	119
	28	3.679	104	25.43	126	20.48	67	62.77	234	27.713	219	60.93	170	49.17	85	74.06	169
Aug.	7	3.575	87	24.17	132	19.81	57	60.43	274	27.494	184	59.23	208	48.32	74	72.37	213
	17	3.488	64	22.85	134	19.24	45	57.69	308	27.310	144	57.15	243	47.58	60	70.24	251
	27	3.424	38	21.51	130	18.79	32	54.61	335	27.166	98	54.72	275	46.98	44	67.73	281
Sept.	6	3.386	4	20.21	121	18.47	18	51.26	356	27.068	47	51.97	301	46.54	26	64.92	301
	16	3.382	34	19.00	105	18.29	3	47.70	370	27.021	11	48.96	321	46.28	5	61.91	311
	26	3.416	76	17.95	82	18.26	12	44.00	376	27.032	73	45.75	335	46.23	16	58.80	307
Okt.	6	3.492	120	17.13	54	18.38	28	40.24	374	27.105	138	42.40	343	46.39	37	55.73	293
	16	3.612	167	16.59	21	18.66	44	36.50	363	27.243	206	38.97	344	46.76	59	52.80	266
	26	3.779	212	16.38	15	19.10	61	32.87	345	27.449	273	35.53	336	47.35	78	50.14	228
Nov.	5	3.991	253	16.53	54	19.71	75	29.42	316	27.722	338	32.17	319	48.13	95	47.86	181
	15	4.244	289	17.07	92	20.46	88	26.26	279	28.060	396	28.98	294	49.08	109	46.05	127
	25	4.533	318	17.99	130	21.34	100	23.47	234	28.456	446	26.04	261	50.17	120	44.78	66
Dez.	5	4.851	336	19.29	163	22.34	109	21.13	181	28.902	483	23.43	219	51.37	126	44.12	2
	15	5.187	342	20.92	192	23.43	115	19.32	121	29.385	507	21.24	169	52.63	128	44.10	63
	25	5.529	340	22.84	216	24.58	117	18.11	58	29.892	513	19.55	114	53.91	125	44.73	125
	35	5.869		25.00		25.75		17.53		30.405		18.41		55.16		45.98	
Mittl. Ort		2.067		9.95		24.67		58.32		27.869		57.01		47.05		44.88	
sec δ, tg δ		1.081		−0.410		4.790		+4.684		1.854		+1.562		5.231		−5.135	
a, *a′*		+3.1		−20.0		+2.8		−20.0		+3.0		−20.0		+3.5		−20.0	
b, *b′*		+0.03		+ 0.03		−0.31		+ 0.04		−0.10		+ 0.05		+0.34		+ 0.06	

Tag	460) η Virginis AR.		Dekl.		462) α Crucis *m* AR.		Dekl.		466) 20 Comae AR.		Dekl.		465) δ Corvi AR.		Dekl.	
1940	12h 16m		−0° 20′		12h 23m		−62° 45′		12h 26m		+21° 13′		12h 26m		−16° 10′	
	s		″		s		″		s		″		s		″	
Jan. 1	50.669	320	4.33	206	16.83	59	45.69	182	42.739	337	30.62	176	46.063	330	51.45	215
11	50.989	302	6.39	194	17.42	54	47.51	230	43.076	322	28.86	142	46.393	313	53.60	221
21	51.291	276	8.33	176	17.96	50	49.81	271	43.398	298	27.44	104	46.706	288	55.81	220
31	51.567	243	10.09	153	18.46	44	52.52	303	43.696	265	26.40	63	46.994	255	58.01	212
Febr. 10	51.810	205	11.62	127	18.90	37	55.55	326	43.961	227	25.77	22	47.249	217	60.13	198
20	52.015	165	12.89	100	19.27	29	58.81	341	44.188	184	25.55	17	47.466	177	62.11	182
März 1	52.180	123	13.89	72	19.56	22	62.22	348	44.372	140	25.72	52	47.643	136	63.93	162
11	52.303	84	14.61	45	19.78	14	65.70	347	44.512	96	26.24	84	47.779	96	65.55	140
21	52.387	46	15.06	20	[28] 19.92	7	69.17	337	[29] 44.608	54	27.08	108	[29] 47.875	58	66.95	117
30	[26] 52.433	13	15.26	1	19.99	1	72.54	323	44.662	16	28.16	127	47.933	24	68.12	94
Apr. 9	52.446	17	15.25	20	20.00	7	75.77	301	44.678	17	29.43	138	47.957	6	69.06	71
19	52.429	41	15.05	36	19.93	12	78.78	272	44.661	46	30.81	144	47.951	32	69.77	50
29	52.388	61	14.69	48	19.81	18	81.50	240	44.615	70	32.25	142	47.919	54	70.27	29
Mai 9	52.327	78	14.21	57	19.63	22	83.90	203	44.545	89	33.67	135	47.865	73	70.56	9
19	52.249	90	13.64	64	19.41	27	85.93	160	44.456	104	35.02	125	47.792	88	70.65	9
29	52.159	100	13.00	69	19.14	30	87.53	116	44.352	114	36.27	109	47.704	100	70.56	27
Juni 8	52.059	106	12.31	70	18.84	32	88.69	68	44.238	123	37.36	92	47.604	110	70.29	44
18	51.953	109	11.61	71	18.52	35	89.37	19	44.115	126	38.28	71	47.494	116	69.85	59
28	51.844	110	10.90	70	18.17	35	89.56	31	43.989	126	38.99	48	47.378	119	69.26	73
Juli 8	51.734	107	10.20	66	17.82	35	89.25	79	43.863	124	39.47	25	47.259	119	68.53	85
18	51.627	102	9.54	61	17.47	34	88.46	126	43.739	118	39.72	1	47.140	116	67.68	94
28	51.525	92	8.93	53	17.13	32	87.20	168	43.621	108	39.73	24	47.024	107	66.74	100
Aug. 7	51.433	79	8.40	43	16.81	28	85.52	206	43.513	94	39.49	50	46.917	94	65.74	103
17	51.354	60	7.97	30	16.53	22	83.46	237	43.419	75	38.99	76	46.823	76	64.71	101
27	51.294	37	7.67	15	16.31	17	81.09	260	43.344	52	38.23	102	46.747	52	63.70	96
Sept. 6	51.257	9	7.52	3	16.14	9	78.49	275	43.292	22	37.21	127	46.695	21	62.74	85
16	51.248	24	7.55	25	16.05	2	75.74	278	43.270	11	35.94	152	46.674	14	61.89	68
26	51.272	62	7.80	49	16.03	8	72.96	270	43.281	50	34.42	176	46.688	53	61.21	48
Okt. 6	51.334	103	8.29	75	16.11	17	70.26	253	43.331	91	32.66	197	46.741	97	60.73	21
16	51.437	145	9.04	101	16.28	26	67.73	223	43.422	136	30.69	217	46.838	143	60.52	9
26	51.582	187	10.05	128	16.54	35	65.50	185	43.558	180	28.52	233	46.981	188	60.61	41
Nov. 5	51.769	228	11.33	153	16.89	43	63.65	138	43.738	224	26.19	242	47.169	231	61.02	75
15	51.997	263	12.86	175	17.32	49	62.27	84	43.962	263	23.77	248	47.400	268	61.77	109
25	52.260	292	14.61	193	17.81	55	61.43	27	44.225	296	21.29	246	47.668	300	62.86	140
Dez. 5	52.552	313	16.54	205	18.36	58	61.16	34	44.521	321	18.83	236	47.968	321	64.26	169
15	52.865	324	18.59	211	18.94	60	61.50	93	44.842	335	16.47	219	48.289	333	65.95	192
25	53.189	323	20.70	210	19.54	58	62.43	149	45.177	340	14.28	194	48.622	333	67.87	208
35	53.512		22.80		20.12		63.92		45.517		12.34		48.955		69.95	
Mittl. Ort	50.067		0.57		15.00		60.94		42.433		41.41		45.342		53.70	
sec δ, tg δ	1.000		−0.006		2.185		−1.943		1.073		+0.388		1.041		−0.290	
a, *a′*	+3.1		−20.0		+3.3		−19.9		+3.0		−19.9		+3.1		−19.9	
b, *b′*	0.00		+ 0.07		+0.13		+ 0.10		−0.03		+ 0.12		+0.02		+ 0.12	

Tag		470) β Canum ven.[1] AR.		470) Dekl.		472) ϰ Draconis AR.		472) Dekl.		471) β Corvi AR.		471) Dekl.		473) 24 Comae *sq* AR.		473) Dekl.	
1940		12h 30m		+41° 40′		12h 30m		+70° 6′		12h 31m		−23° 3′		12h 32m		+18° 41′	
Jan.	1	53.785	393	43.24	136	54.79	74	45.83	67	14.612	341	49.70	213	7.519	333	75.91	183
	11	54.178	379	41.88	84	55.53	73	45.16	3	14.953	325	51.83	226	7.852	320	74.08	152
	21	54.557	352	41.04	30	56.26	68	45.13	62	15.278	299	54.09	232	8.172	297	72.56	115
	31	54.909	316	40.74	23	56.94	61	45.75	123	15.577	266	56.41	231	8.469	265	71.41	76
Febr.	10	55.225	270	40.97	74	57.55	53	46.98	179	15.843	227	58.72	225	8.734	228	70.65	36
	20	55.495	219	41.71	121	58.08	42	48.77	227	16.070	187	60.97	212	8.962	187	70.29	2
März	1	55.714	164	42.92	160	58.50	30	51.04	264	16.257	145	63.09	197	9.149	144	70.31	37
	11	55.878	109	44.52	192	58.80	19	53.68	291	16.402	103	65.06	178	9.293	100	70.68	69
	21	55.987	55	46.44	214	58.99	6	56.59	304	16.505	65	66.84	157	9.393	60	71.37	94
	30	30 56.042	5	48.58	227	30 59.05	5	59.63	306	30 16.570	30	68.41	134	30 9.453	23	72.31	114
Apr.	9	56.047	40	50.85	230	59.00	16	62.69	297	16.600	1	69.75	111	9.476	10	73.45	127
	19	56.007	79	53.15	224	58.84	26	65.66	276	16.599	30	70.86	88	9.466	39	74.72	134
	29	55.928	111	55.39	210	58.58	34	68.42	246	16.569	53	71.74	64	9.427	62	76.06	134
Mai	9	55.817	138	57.49	189	58.24	41	70.88	208	16.516	73	72.38	41	9.365	82	77.40	131
	19	55.679	158	59.38	161	57.83	46	72.96	164	16.443	91	72.79	17	9.283	97	78.71	121
	29	55.521	173	60.99	130	57.37	50	74.60	116	16.352	104	72.96	5	9.186	109	79.92	109
Juni	8	55.348	182	62.29	94	56.87	52	75.76	63	16.248	115	72.91	28	9.077	117	81.01	93
	18	55.166	187	63.23	57	56.35	53	76.39	10	16.133	124	72.63	49	8.960	123	81.94	74
	28	54.979	185	63.80	17	55.82	52	76.49	42	16.009	129	72.14	69	8.837	124	82.68	55
Juli	8	54.794	180	63.97	21	55.30	50	76.07	95	15.880	129	71.45	87	8.713	122	83.23	33
	18	54.614	171	63.76	61	54.80	47	75.12	145	15.751	126	70.58	103	8.591	118	83.56	10
	28	54.443	156	63.15	99	54.33	43	73.67	191	15.625	118	69.55	116	8.473	109	83.66	13
Aug.	7	54.287	137	62.16	135	53.90	38	71.76	235	15.507	105	68.39	124	8.364	95	83.53	37
	17	54.150	111	60.81	170	53.52	31	69.41	272	15.402	85	67.15	128	8.269	78	83.16	62
	27	54.039	82	59.11	202	53.21	24	66.69	305	15.317	61	65.87	128	8.191	55	82.54	87
Sept.	6	53.957	46	57.09	231	52.97	16	63.64	332	15.256	29	64.59	120	8.136	28	81.67	112
	16	53.911	5	54.78	256	52.81	7	60.32	352	15.227	9	63.39	107	8.108	6	80.55	137
	26	53.906	40	52.22	277	52.74	2	56.80	366	15.236	50	62.32	88	8.114	44	79.18	161
Okt.	6	53.946	90	49.45	294	52.76	13	53.14	372	15.286	96	61.44	63	8.158	85	77.57	184
	16	54.036	143	46.51	304	52.89	23	49.42	370	15.382	144	60.81	33	8.243	130	75.73	205
	26	54.179	196	43.47	309	53.12	33	45.72	358	15.526	192	60.48	1	8.373	174	73.68	222
Nov.	5	54.375	247	40.38	305	53.45	44	42.14	337	15.718	237	60.49	39	8.547	218	71.46	234
	15	54.622	294	37.33	293	53.89	53	38.77	309	15.955	276	60.88	76	8.765	256	69.12	241
	25	54.916	336	34.40	274	54.42	61	35.68	269	16.231	308	61.64	113	9.021	290	66.71	242
Dez.	5	55.252	367	31.66	246	55.03	68	32.99	222	16.539	332	62.77	148	9.311	316	64.29	236
	15	55.619	388	29.20	209	55.71	72	30.77	168	16.871	343	64.25	176	9.627	331	61.93	221
	25	56.007	395	27.11	165	56.43	75	29.09	107	17.214	345	66.01	202	9.958	335	59.72	199
	35	56.402		25.46		57.18		28.02		17.559		68.03		10.293		57.73	
Mittl. Ort		53.800		59.82		55.92		67.46		13.833		54.50		7.218		85.66	
sec δ, tg δ		1.339		+0.890		2.940		+2.765		1.087		−0.426		1.056		+0.339	
a, *a′*		+2.9		−19.9		+2.6		−19.9		+3.2		−19.9		+3.0		−19.8	
b, *b′*		−0.06		+ 0.13		−0.18		+ 0.13		+0.03		+ 0.14		−0.02		+ 0.14	

[1]) Die jährliche Parallaxe (0.″107) ist bereits berücksichtigt.

Tag	474) α Muscae AR.	Δ	474) α Muscae Dekl.	Δ	476) γ Centauri *m* AR.	Δ	476) γ Centauri *m* Dekl.	Δ	478) 76 Ursae maj. AR.	Δ	478) 76 Ursae maj. Dekl.	Δ	481) β Crucis AR.	Δ	481) β Crucis Dekl.	Δ
1940	$12^h\ 33^m$		−68° 48′		$12^h\ 38^m$		−48° 37′		$12^h\ 38^m$		+63° 1′		$12^h\ 44^m$		−59° 21′	
	s		″		s		″		s		″		s		″	
Jan. 1	37.09	72	1.60	158	12.981	439	36.76	186	56.25	58	71.30	96	13.443	544	24.07	162
11	37.81	68	3.18	210	13.420	418	38.62	225	56.83	57	70.34	33	13.987	520	25.69	208
21	38.49	63	5.28	254	13.838	386	40.87	255	57.40	54	70.01	31	14.507	482	27.77	249
31	39.12	55	7.82	292	14.224	345	43.42	279	57.94	49	70.32	92	14.989	432	30.26	281
Febr. 10	39.67	47	10.74	322	14.569	296	46.21	294	58.43	42	71.24	149	15.421	374	33.07	305
20	40.14	39	13.96	342	14.865	244	49.15	302	58.85	34	72.73	199	15.795	311	36.12	322
März 1	40.53	29	17.38	354	15.109	191	52.17	303	59.19	26	74.72	240	16.106	244	39.34	330
11	40.82	20	20.92	357	15.300	137	55.20	296	59.45	16	77.12	270	16.350	178	42.64	331
21	41.02	11	24.49	353	15.437	87	58.16	285	59.61	8	79.82	288	16.528	113	45.95	324
31	$_{31}$41.13	2	28.02	342	$_{1}$15.524	38	61.01	268	$_{1}$59.69	1	82.70	295	$_{2}$16.641	51	49.19	311
Apr. 9	41.15	6	31.44	324	15.562	6	63.69	246	59.68	9	85.65	290	16.692	9	52.30	293
19	41.09	15	34.68	298	15.556	47	66.15	221	59.59	16	88.55	275	16.683	64	55.23	269
29	40.94	21	37.66	267	15.509	84	68.36	190	59.43	22	91.30	250	16.619	114	57.92	239
Mai 9	40.73	28	40.33	231	15.425	116	70.26	158	59.21	28	93.80	217	16.505	161	60.31	205
19	40.45	34	42.64	190	15.309	145	71.84	122	58.93	31	95.97	177	16.344	202	62.36	167
29	40.11	39	44.54	145	15.164	170	73.06	83	58.62	34	97.74	132	16.142	238	64.03	125
Juni 8	39.72	42	45.99	96	14.994	190	73.89	44	58.28	37	99.06	85	15.904	267	65.28	80
18	39.30	46	46.95	45	14.804	205	74.33	4	57.91	37	99.91	34	15.637	289	66.08	35
28	38.84	47	47.40	6	14.599	215	74.37	38	57.54	37	100.25	17	15.348	304	66.43	12
Juli 8	38.37	47	47.34	58	14.384	218	73.99	77	57.17	36	100.08	67	15.044	310	66.31	59
18	37.90	46	46.76	109	14.166	214	73.22	114	56.81	34	99.41	116	14.734	306	65.72	104
28	37.44	43	45.67	155	13.952	203	72.08	149	56.47	32	98.25	163	14.428	290	64.68	147
Aug. 7	37.01	39	44.12	198	13.749	182	70.59	179	56.15	28	96.62	205	14.138	265	63.21	184
17	36.62	33	42.14	234	13.567	154	68.80	202	55.87	23	94.57	245	13.873	226	61.37	216
27	36.29	24	39.80	262	13.413	116	66.78	220	55.64	19	92.12	280	13.647	176	59.21	241
Sept. 6	36.05	16	37.18	281	13.297	70	64.58	229	55.45	12	89.32	310	13.471	115	56.80	257
16	35.89	6	34.37	291	13.227	16	62.29	228	55.33	6	86.22	333	13.356	44	54.23	264
26	35.83	6	31.46	288	13.211	45	60.01	219	55.27	1	82.89	350	13.312	35	51.59	261
Okt. 6	35.89	18	28.58	275	13.256	109	57.82	200	55.28	9	79.39	361	13.347	118	48.98	246
16	36.07	29	25.83	250	13.365	175	55.82	172	55.37	17	75.78	363	13.465	204	46.52	221
26	36.36	40	23.33	214	13.540	241	54.10	135	55.54	25	72.15	357	13.669	287	44.31	186
Nov. 5	36.76	51	21.19	169	13.781	301	52.75	92	55.79	34	68.58	342	13.956	363	42.45	143
15	37.27	59	19.50	117	14.082	353	51.83	43	56.13	40	65.16	318	14.319	431	41.02	94
25	37.86	66	18.33	59	14.435	396	51.40	9	56.53	47	61.98	284	14.750	485	40.08	39
Dez. 5	38.52	70	17.74	1	14.831	426	51.49	61	57.00	53	59.14	241	15.235	522	39.69	18
15	39.22	73	17.75	63	15.257	441	52.10	111	57.53	57	56.73	191	15.757	544	39.87	75
25	39.95	72	18.38	122	15.698	443	53.21	159	58.10	58	54.82	134	16.301	547	40.62	130
35	40.67		19.60		16.141		54.80		58.68		53.48		16.848		41.92	
Mittl. Ort	34.98		18.31		11.812		49.52		57.02		91.76		12.003		39.52	
sec δ, tg δ	2.766		−2.579		1.513		−1.136		2.206		+1.966		1.962		−1.688	
a, *a′*	+3.6		−19.8		+3.3		−19.8		+2.6		−19.8		+3.5		−19.7	
b, *b′*	+0.17		+ 0.15		+0.07		+ 0.17		−0.13		+ 0.17		+0.11		+ 0.19	

Scheinbare Sternörter 1940

Tag	482) 150 G. Centauri AR.	d	Dekl.	d	483) ε Ursae maj. AR.	d	Dekl.	d	484) δ Virginis AR.	d	Dekl.	d	486) 8 Draconis AR.	d	Dekl.	d
1940	$12^h\ 50^m$		$-39°\ 50'$		$12^h\ 51^m$		$+56°\ 16'$		$12^h\ 52^m$		$+3°\ 43'$		$12^h\ 53^m$		$+65°\ 45'$	
	s		"		s		"		s		"		s		"	
Jan. 1	7.193	395	59.48	185	23.078	494	47.90	127	35.112	323	19.53	204	4.40	63	28.76	107
11	7.588	380	61.33	217	23.572	486	46.63	67	35.435	312	17.49	188	5.03	62	27.69	44
21	7.968	354	63.50	240	24.058	461	45.96	5	35.747	293	15.61	166	5.65	60	27.25	21
31	8.322	319	65.90	258	24.519	423	45.91	57	36.040	266	13.95	140	6.25	55	27.46	85
Febr. 10	8.641	278	68.48	266	24.942	370	46.48	114	36.306	233	12.55	111	6.80	48	28.31	144
20	8.919	234	71.14	270	25.312	308	47.62	166	36.539	195	11.44	80	7.28	39	29.75	197
März 1	9.153	187	73.84	266	25.620	239	49.28	210	36.734	157	10.64	50	7.67	31	31.72	239
11	9.340	142	76.50	257	25.859	167	51.38	244	36.891	118	10.14	20	7.98	21	34.11	272
21	9.482	97	79.07	243	26.026	95	53.82	268	37.009	81	9.94	6	8.19	11	36.83	294
31	9.579	56	81.50	225	26.121	25	56.50	280	37.090	47	10.00	28	8.30	2	39.77	302
	4				4				5				5			
Apr. 9	9.635	17	83.75	205	26.146	40	59.30	281	37.137	16	10.28	48	8.32	7	42.79	300
19	9.652	18	85.80	180	26.106	99	62.11	271	37.153	11	10.76	62	8.25	16	45.79	286
29	9.634	50	87.60	154	26.007	150	64.82	252	37.142	35	11.38	72	8.09	23	48.65	263
Mai 9	9.584	78	89.14	125	25.857	194	67.34	225	37.107	55	12.10	79	7.86	29	51.28	231
19	9.506	104	90.39	94	25.663	228	69.59	190	37.052	73	12.89	83	7.57	34	53.59	191
29	9.402	126	91.33	61	25.435	255	71.49	151	36.979	87	13.72	83	7.23	39	55.50	147
Juni 8	9.276	144	91.94	28	25.180	273	73.00	107	36.892	99	14.55	80	6.84	40	56.97	99
18	9.132	160	92.22	5	24.907	285	74.07	60	36.793	107	15.35	77	6.44	42	57.96	47
28	8.972	170	92.17	40	24.622	288	74.67	12	36.686	114	16.12	70	6.02	43	58.43	5
Juli 8	8.802	175	91.77	72	24.334	284	74.79	36	36.572	117	16.82	61	5.59	42	58.38	56
18	8.627	176	91.05	103	24.050	275	74.43	84	36.455	116	17.43	52	5.17	40	57.82	107
28	8.451	168	90.02	131	23.775	256	73.59	129	36.339	112	17.95	40	4.77	38	56.75	156
Aug. 7	8.283	155	88.71	155	23.519	232	72.30	173	36.227	104	18.35	26	4.39	34	55.19	201
17	8.128	133	87.16	174	23.287	201	70.57	213	36.123	88	18.61	11	4.05	30	53.18	241
27	7.995	104	85.42	186	23.086	161	68.44	249	36.035	69	18.72	6	3.75	24	50.77	279
Sept. 6	7.891	66	83.56	192	22.925	116	65.95	282	35.966	44	18.66	27	3.51	18	47.98	310
16	7.825	21	81.64	189	22.809	63	63.13	308	35.922	12	18.39	48	3.33	10	44.88	336
26	7.804	30	79.75	178	22.746	4	60.05	330	35.910	24	17.91	72	3.23	3	41.52	354
Okt. 6	7.834	85	77.97	160	22.742	60	56.75	345	35.934	65	17.19	96	3.20	5	37.98	366
16	7.919	144	76.37	132	22.802	129	53.30	353	35.999	109	16.23	122	3.25	15	34.32	371
26	8.063	201	75.05	98	22.931	199	49.77	352	36.108	154	15.01	146	3.40	23	30.61	366
Nov. 5	8.264	256	74.07	58	23.130	267	46.25	343	36.262	197	13.55	169	3.63	33	26.95	352
15	8.520	305	73.49	14	23.397	332	42.82	325	36.459	237	11.86	189	3.96	41	23.43	329
25	8.825	346	73.35	33	23.729	391	39.57	297	36.696	272	9.97	203	4.37	49	20.14	295
Dez. 5	9.171	375	73.68	79	24.120	438	36.60	261	36.968	299	7.94	211	4.86	55	17.19	254
15	9.546	392	74.47	122	24.558	472	33.99	215	37.267	316	5.83	215	5.41	59	14.65	204
25	9.938	397	75.69	163	25.030	492	31.84	163	37.583	323	3.68	210	6.00	63	12.61	146
35	10.335		77.32		25.522		30.21		37.906		1.58		6.63		11.15	
Mittl. Ort	6.295		70.31		23.696		66.73		34.765		23.29		5.56		48.95	
sec δ, tg δ	1.303		−0.835		1.802		+1.499		1.002		+0.065		2.436		+2.221	
a, a'	+3.3		−19.6		+2.6		−19.5		+3.1		−19.5		+2.4		−19.5	
b, b'	+0.05		+ 0.22		−0.10		+ 0.22		0.00		+ 0.23		−0.14		+ 0.23	

Tag	485) α Can. ven. *sq*				488) ε Virginis				490) ϑ Virginis				492) β Comae[1])			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	12^h 53^m		$+38° 37'$		12^h 59^m		$+11° 16'$		13^h 6^m		$-5° 13'$		13^h 9^m		$+28° 10'$	
	s		"		s		"		s		"		s		"	
Jan. 1	13.271	380	76.39	164	11.571	326	46.36	200	50.771	325	8.81	203	4.388	348	43.26	187
11	13.651	373	74.75	114	11.897	317	44.36	177	51.096	317	10.84	198	4.736	341	41.39	147
21	14.024	352	73.61	63	12.214	300	42.59	147	51.413	300	12.82	186	5.077	325	39.92	102
31	14.376	322	72.98	8	12.514	274	41.12	115	51.713	274	14.68	169	5.402	300	38.90	55
Febr. 10	14.698	282	72.90	44	12.788	240	39.97	79	51.987	244	16.37	148	5.702	266	38.35	6
20	14.980	236	73.34	92	13.028	204	39.18	42	52.231	208	17.85	123	5.968	227	38.29	40
März 1	15.216	186	74.26	135	13.232	165	38.76	8	52.439	171	19.08	97	6.195	184	38.69	82
11	15.402	136	75.61	171	13.397	126	38.68	23	52.610	134	20.05	72	6.379	140	39.51	118
21	15.538	85	77.32	198	13.523	88	38.91	51	52.744	98	20.77	48	6.519	98	40.69	149
31	15.623	38	79.30	217	13.611	52	39.42	75	52.842	64	21.25	24	6.617	56	42.18	171
Apr. 9	[5] 15.661	7	81.47	224	[6] 13.663	20	40.17	92	[8] 52.906	34	21.49	4	[9] 6.673	18	43.89	185
19	15.654	45	83.71	224	13.683	9	41.09	104	52.940	6	21.53	14	6.691	16	45.74	191
29	15.609	79	85.95	215	13.674	34	42.13	110	52.946	19	21.39	28	6.675	46	47.65	190
Mai 9	15.530	107	88.10	199	13.640	55	43.23	113	52.927	40	21.11	40	6.629	72	49.55	181
19	15.423	131	90.09	175	13.585	74	44.36	111	52.887	60	20.71	50	6.557	95	51.36	167
29	15.292	149	91.84	148	13.511	89	45.47	105	52.827	77	20.21	57	6.462	112	53.03	148
Juni 8	15.143	163	93.32	116	13.422	102	46.52	95	52.750	90	19.64	63	6.350	128	54.51	124
18	14.980	172	94.48	80	13.320	111	47.47	84	52.660	103	19.01	66	6.222	139	55.75	98
28	14.808	176	95.28	44	13.209	118	48.31	70	52.557	112	18.35	69	6.083	146	56.73	68
Juli 8	14.632	176	95.72	5	13.091	122	49.01	55	52.445	117	17.66	68	5.937	150	57.41	37
18	14.456	172	95.77	33	12.969	122	49.56	38	52.328	120	16.98	66	5.787	150	57.78	6
28	14.284	163	95.44	71	12.847	118	49.94	19	52.208	119	16.32	64	5.637	145	57.84	26
Aug. 7	14.121	149	94.73	108	12.729	109	50.13	1	52.089	111	15.68	57	5.492	136	57.58	58
17	13.972	128	93.65	143	12.620	96	50.12	21	51.978	99	15.11	48	5.356	122	57.00	91
27	13.844	103	92.22	178	12.524	76	49.91	44	51.879	80	14.63	37	5.234	100	56.09	122
Sept. 6	13.741	70	90.44	209	12.448	51	49.47	67	51.799	55	14.26	23	5.134	73	54.87	151
16	13.671	33	88.35	237	12.397	21	48.80	92	51.744	25	14.03	4	5.061	41	53.36	181
26	13.638	10	85.98	262	12.376	16	47.88	116	51.719	12	13.99	17	5.020	2	51.55	207
Okt. 6	13.648	59	83.36	282	12.392	57	46.72	141	51.731	54	14.16	41	5.018	41	49.48	230
16	13.707	110	80.54	297	12.449	101	45.31	164	51.785	98	14.57	66	5.059	89	47.18	251
26	13.817	163	77.57	306	12.550	147	43.67	186	51.883	144	15.23	94	5.148	138	44.67	266
Nov. 5	13.980	215	74.51	307	12.697	191	41.81	205	52.027	190	16.17	121	5.286	187	42.01	275
15	14.195	264	71.44	302	12.888	232	39.76	219	52.217	231	17.38	145	5.473	233	39.26	278
25	14.459	307	68.42	287	13.120	269	37.57	227	52.448	268	18.83	168	5.706	274	36.48	273
Dez. 5	14.766	343	65.55	263	13.389	297	35.30	230	52.716	296	20.51	186	5.980	308	33.75	260
15	15.109	367	62.92	232	13.686	316	33.00	224	53.012	315	22.37	198	6.288	332	31.15	239
25	15.476	379	60.60	192	14.002	326	30.76	212	53.327	325	24.35	203	6.620	345	28.76	209
35	15.855		58.68		14.328		28.64		53.652		26.38		6.965		26.67	
Mittl. Ort	13.417		91.23		11.350		52.48		50.410		8.79		4.452		54.46	
sec δ, tg δ	1.280		+0.800		1.020		+0.199		1.004		−0.091		1.134		+0.536	
a, *a'*	+2.8		−19.5		+3.0		−19.4		+3.1		−19.2		+2.9		−19.1	
b, *b'*	−0.05		+ 0.23		−0.01		+ 0.26		+0.01		+ 0.29		−0.03		+ 0.30	

[1]) Die jährliche Parallaxe (0."133) ist bereits berücksichtigt.

Scheinbare Sternörter 1940

Tag	495) γ Hydrae AR.		Dekl.		496) ι Centauri AR.		Dekl.		497) ζ Ursae maj. *pr* AR.		Dekl.		498) α Virginis AR.		Dekl.	
1940	$13^h\ 15^m$		−22° 51′		$13^h\ 17^m$		−36° 23′		$13^h\ 21^m$		+55° 13′		$13^h\ 22^m$		−10° 50′	
	s		″		s		″		s		″		s		″	
Jan. 1	39.769	347	13.49	186	13.604	384	36.02	166	29.865	475	60.49	164	2.034	329	52.86	195
11	40.116	339	15.35	201	13.988	376	37.68	193	30.340	477	58.85	105	2.363	324	54.81	197
21	40.455	322	17.36	209	14.364	356	39.61	216	30.817	463	57.80	42	2.687	308	56.78	193
31	40.777	295	19.45	209	14.720	328	41.77	231	31.280	434	57.38	21	2.995	285	58.71	181
Febr. 10	41.072	264	21.54	206	15.048	293	44.08	241	31.714	391	57.59	82	3.280	256	60.52	165
20	41.336	228	23.60	197	15.341	254	46.49	242	32.105	338	58.41	138	3.536	222	62.17	146
März 1	41.564	191	25.57	183	15.595	212	48.91	240	32.443	277	59.79	188	3.758	187	63.63	124
11	41.755	153	27.40	167	15.807	171	51.31	232	32.720	211	61.67	228	3.945	150	64.87	102
21	41.908	115	29.07	149	15.978	129	53.63	220	32.931	143	63.95	259	4.095	116	65.89	78
31	42.023	80	30.56	129	16.107	89	55.83	204	33.074	76	66.54	277	4.211	82	66.67	57
Apr. 10	42.103	48	31.85	109	16.196	52	57.87	186	33.150	11	69.31	286	4.293	50	67.24	37
19	(10) 42.151	18	32.94	89	(11) 16.248	18	59.73	166	(12) 33.161	49	72.17	283	(12) 4.343	23	67.61	18
29	42.169	10	33.83	69	16.266	15	61.39	142	33.112	103	75.00	270	4.366	4	67.79	1
Mai 9	42.159	35	34.52	48	16.251	45	62.81	119	33.009	150	77.70	249	4.362	27	67.80	13
19	42.124	57	35.00	29	16.206	72	64.00	92	32.859	191	80.19	219	4.335	49	67.67	26
29	42.067	78	35.29	9	16.134	97	64.92	63	32.668	225	82.38	182	4.286	68	67.41	37
Juni 8	41.989	96	35.38	10	16.037	119	65.55	36	32.443	251	84.20	141	4.218	85	67.04	46
18	41.893	112	35.28	30	15.918	139	65.91	5	32.192	270	85.61	97	4.133	100	66.58	55
28	41.781	124	34.98	47	15.779	153	65.96	24	31.922	282	86.58	49	4.033	111	66.03	61
Juli 8	41.657	132	34.51	65	15.626	165	65.72	52	31.640	287	87.07	1	3.922	121	65.42	66
18	41.525	138	33.86	80	15.461	170	65.20	81	31.353	286	87.08	47	3.801	126	64.76	71
28	41.387	137	33.06	93	15.291	169	64.39	107	31.067	276	86.61	95	3.675	126	64.05	72
Aug. 7	41.250	130	32.13	104	15.122	161	63.32	129	30.791	260	85.66	141	3.549	122	63.33	71
17	41.120	118	31.09	110	14.961	146	62.03	148	30.531	235	84.25	184	3.427	111	62.62	67
27	41.002	98	29.99	112	14.815	122	60.55	160	30.296	203	82.41	224	3.316	94	61.95	61
Sept. 6	40.904	71	28.87	109	14.693	90	58.95	167	30.093	162	80.17	260	3.222	70	61.34	50
16	40.833	37	27.78	101	14.603	50	57.28	167	29.931	115	77.57	293	3.152	39	60.84	35
26	40.796	3	26.77	87	14.553	3	55.61	159	29.816	59	74.64	318	3.113	3	60.49	17
Okt. 6	40.799	50	25.90	67	14.550	50	54.02	144	29.757	3	71.46	339	3.110	40	60.32	4
16	40.849	98	25.23	42	14.600	106	52.58	121	29.760	71	68.07	353	3.150	85	60.36	30
26	40.947	149	24.81	13	14.706	164	51.37	91	29.831	141	64.54	358	3.235	133	60.66	57
Nov. 5	41.096	198	24.68	20	14.870	219	50.46	56	29.972	211	60.96	355	3.368	180	61.23	86
15	41.294	244	24.88	54	15.089	270	49.90	17	30.183	280	57.41	342	3.548	224	62.09	114
25	41.538	283	25.42	88	15.359	314	49.73	26	30.463	343	53.99	321	3.772	263	63.23	139
Dez. 5	41.821	314	26.30	121	15.673	348	49.99	67	30.806	397	50.78	289	4.035	293	64.62	162
15	42.135	335	27.51	150	16.021	372	50.66	108	31.203	438	47.89	248	4.328	315	66.24	180
25	42.470	345	29.01	174	16.393	381	51.74	144	31.641	467	45.41	199	4.643	326	68.04	192
35	42.815		30.75		16.774		53.18		32.108		43.42		4.969		69.96	
Mittl. Ort	39.271		19.91		12.956		46.78		30.758		77.60		1.703		55.41	
sec δ, tg δ	1.085		−0.422		1.242		−0.737		1.754		+1.441		1.018		−0.192	
a, *a′*	+3.3		−19.0		+3.4		−18.9		+2.4		−18.8		+3.2		−18.8	
b, *b′*	+0.03		+ 0.32		+0.05		+ 0.33		−0.09		+ 0.35		+0.01		+ 0.35	

Tag	499) Grb 2001 UMin AR.	Δ	Dekl.	Δ	500) 69 H. Urs. maj. AR.	Δ	Dekl.	Δ
1940	$13^h\ 24^m$		+72° 41′		$13^h\ 26^m$		+60° 14′	
Jan. 1	33.56	81	50.55	133	13.88	52	61.09	161
11	34.37	83	49.22	68	14.40	54	59.48	98
21	35.20	81	48.54	1	14.94	52	58.50	35
31	36.01	76	48.53	66	15.46	49	58.15	31
Febr. 10	36.77	69	49.19	129	15.95	44	58.46	93
20	37.46	61	50.48	185	16.39	39	59.39	150
März 1	38.07	49	52.33	234	16.78	32	60.89	201
11	38.56	36	54.67	273	17.10	24	62.90	241
21	38.92	23	57.40	299	17.34	16	65.31	272
31	39.15	10	60.39	313	17.50	8	68.03	292
Apr. 10	$_{13}$39.25	3	63.52	316	$_{13}$17.58	1	70.95	298
19	39.22	15	66.68	307	17.59	5	73.93	295
29	39.07	27	69.75	288	17.54	13	76.88	281
Mai 9	38.80	37	72.63	258	17.41	18	79.69	257
19	38.43	46	75.21	221	17.23	23	82.26	225
29	37.97	52	77.42	177	17.00	27	84.51	187
Juni 8	37.45	57	79.19	128	16.73	30	86.38	145
18	36.88	62	80.47	77	16.43	33	87.83	97
28	36.26	63	81.24	23	16.10	34	88.80	47
Juli 8	35.63	64	81.47	31	15.76	35	89.27	3
18	34.99	64	81.16	84	15.41	34	89.24	53
28	34.35	61	80.32	135	15.07	34	88.71	102
Aug. 7	33.74	56	78.97	185	14.73	31	87.69	150
17	33.18	52	77.12	229	14.42	29	86.19	195
27	32.66	45	74.83	269	14.13	25	84.24	236
Sept. 6	32.21	37	72.14	305	13.88	21	81.88	273
16	31.84	28	69.09	335	13.67	15	79.15	305
26	31.56	17	65.74	357	13.52	8	76.10	331
Okt. 6	31.39	6	62.17	373	13.44	2	72.79	351
16	31.33	6	58.44	381	13.42	6	69.28	364
26	31.39	18	54.63	379	13.48	14	65.64	368
Nov. 5	31.57	31	50.84	369	13.62	22	61.96	363
15	31.88	44	47.15	348	13.84	29	58.33	349
25	32.32	55	43.67	318	14.13	37	54.84	325
Dez. 5	32.87	65	40.49	278	14.50	43	51.59	291
15	33.52	73	37.71	229	14.93	49	48.68	248
25	34.25	80	35.42	172	15.42	51	46.20	196
35	35.05		33.70		15.93		44.24	
Mittl. Ort	36.07		69.77		15.09		78.76	
sec δ, tg δ	3.363		+3.211		2.016		+1.750	
a, *a′*	+1.5		−18.7		+2.2		−18.6	
b, *b′*	−0.20		+ 0.36		−0.11		+ 0.37	

Tag	501) ζ Virginis AR.	Δ	Dekl.	Δ	502) 17 H. Can. ven. AR.	Δ	Dekl.	Δ
1940	$13^h\ 31^m$		−0° 17′		$13^h\ 32^m$		+37° 28′	
Jan. 1	38.154	321	24.12	202	6.718	369	68.65	198
11	38.475	319	26.14	192	7.087	371	66.67	151
21	38.794	306	28.06	175	7.458	360	65.16	99
31	39.100	284	29.81	154	7.818	338	64.17	44
Febr. 10	39.384	258	31.35	127	8.156	307	63.73	11
20	39.642	226	32.62	100	8.463	268	63.84	63
März 1	39.868	191	33.62	71	8.731	225	64.47	112
11	40.059	156	34.33	42	8.956	179	65.59	153
21	40.215	121	34.75	15	9.135	132	67.12	187
31	40.336	87	34.90	8	9.267	85	68.99	212
Apr. 10	$_{14}$40.423	57	34.82	29	$_{15}$9.352	42	71.11	228
19	40.480	28	34.53	46	9.394	2	73.39	233
29	40.508	1	34.07	58	9.396	36	75.72	231
Mai 9	40.509	23	33.49	68	9.360	69	78.03	221
19	40.486	44	32.81	74	9.291	97	80.24	202
29	40.442	64	32.07	77	9.194	122	82.26	177
Juni 8	40.378	82	31.30	77	9.072	143	84.03	149
18	40.296	96	30.53	76	8.929	160	85.52	116
28	40.200	109	29.77	73	8.769	173	86.68	79
Juli 8	40.091	119	29.04	67	8.596	180	87.47	42
18	39.972	125	28.37	60	8.416	184	87.89	3
28	39.847	127	27.77	52	8.232	182	87.92	37
Aug. 7	39.720	124	27.25	41	8.050	174	87.55	76
17	39.596	114	26.84	28	7.876	161	86.79	114
27	39.482	99	26.56	14	7.715	141	85.65	151
Sept. 6	39.383	78	26.42	3	7.574	114	84.14	186
16	39.305	48	26.45	23	7.460	80	82.28	218
26	39.257	14	26.68	45	7.380	39	80.10	247
Okt. 6	39.243	27	27.13	68	7.341	7	77.63	273
16	39.270	71	27.81	93	7.348	58	74.90	293
26	39.341	118	28.74	118	7.406	113	71.97	307
Nov. 5	39.459	165	29.92	142	7.519	167	68.90	315
15	39.624	209	31.34	165	7.686	220	65.75	314
25	39.833	248	32.99	183	7.906	269	62.61	305
Dez. 5	40.081	280	34.82	197	8.175	310	59.56	288
15	40.361	304	36.79	204	8.485	343	56.68	261
25	40.665	317	38.83	206	8.828	362	54.07	225
35	40.982		40.89		9.190		51.82	
Mittl. Ort	37.990		23.38		7.129		81.24	
sec δ, tg δ	1.000		−0.005		1.260		+0.767	
a, *a′*	+3.1		−18.5		+2.7		−18.4	
b, *b′*	0.00		+ 0.39		−0.05		+ 0.39	

Scheinbare Sternörter 1940

Tag	504) ε Centauri AR.		504) ε Centauri Dekl.		507) τ Bootis AR.		507) τ Bootis Dekl.		509) η Ursae maj. AR.		509) η Ursae maj. Dekl.		510) 89 Virginis AR.		510) 89 Virginis Dekl.	
1940	$13^h\ 36^m$		$-53°\ 9'$		$13^h\ 44^m$		$+17°\ 44'$		$13^h\ 45^m$		$+49°\ 36'$		$13^h\ 46^m$		$-17°\ 50'$	
	s		"		s		"		s		"		s		"	
Jan. 1	5.063	488	27.36	108	24.465	325	72.19	212	9.795	420	29.24	197	36.626	336	4.02	175
11	5.551	482	28.44	153	24.790	326	70.07	183	10.215	429	27.27	142	36.962	334	5.77	185
21	6.033	464	29.97	192	25.116	317	68.24	148	10.644	421	25.85	82	37.296	323	7.62	189
31	6.497	433	31.89	224	25.433	299	66.76	108	11.065	401	25.03	21	37.619	304	9.51	185
Febr. 10	6.930	394	34.13	249	25.732	273	65.68	67	11.466	369	24.82	41	37.923	278	11.36	178
20	7.324	348	36.62	268	26.005	241	65.01	25	11.835	327	25.23	99	38.201	247	13.14	166
März 1	7.672	299	39.30	279	26.246	207	64.76	16	12.162	277	26.22	151	38.448	213	14.80	150
11	7.971	246	42.09	286	26.453	170	64.92	54	12.439	222	27.73	197	38.661	179	16.30	132
21	8.217	194	44.95	285	26.623	133	65.46	87	12.661	165	29.70	232	38.840	144	17.62	114
31	8.411	142	47.80	278	26.756	97	66.33	114	12.826	108	32.02	258	38.984	111	18.76	94
Apr. 10	16 8.553	92	50.58	267	18 26.853	62	67.47	134	18 12.934	52	34.60	273	18 39.095	79	19.70	75
19	8.645	42	53.25	250	26.915	31	68.81	148	12.986	1	37.33	277	39.174	49	20.45	57
29	8.687	5	55.75	230	26.946	1	70.29	155	12.985	50	40.10	271	39.223	21	21.02	40
Mai 9	8.682	49	58.05	205	26.947	26	71.84	155	12.935	94	42.81	257	39.244	5	21.42	24
19	8.633	93	60.10	176	26.921	51	73.39	151	12.841	133	45.38	233	39.239	30	21.66	9
29	8.540	132	61.86	144	26.870	72	74.90	142	12.708	167	47.71	203	39.209	54	21.75	6
Juni 8	8.408	168	63.30	107	26.798	91	76.32	127	12.541	195	49.74	167	39.155	75	21.69	20
18	8.240	199	64.37	70	26.707	109	77.59	110	12.346	218	51.41	127	39.080	94	21.49	32
28	8.041	226	65.07	29	26.598	123	78.69	89	12.128	235	52.68	83	38.986	111	21.17	44
Juli 8	7.815	245	65.36	12	26.475	133	79.58	68	11.893	246	53.51	38	38.875	125	20.73	56
18	7.570	256	65.24	53	26.342	140	80.26	43	11.647	251	53.89	8	38.750	135	20.17	65
28	7.314	259	64.71	93	26.202	143	80.69	18	11.396	250	53.81	55	38.615	139	19.52	74
Aug. 7	7.055	252	63.78	129	26.059	141	80.87	7	11.146	242	53.26	101	38.476	139	18.78	80
17	6.803	232	62.49	164	25.918	133	80.80	35	10.904	226	52.25	144	38.337	131	17.98	83
27	6.571	202	60.85	191	25.785	118	80.45	63	10.678	202	50.81	186	38.206	116	17.15	82
Sept. 6	6.369	160	58.94	212	25.667	97	79.82	90	10.476	170	48.95	225	38.090	94	16.33	79
16	6.209	107	56.82	226	25.570	69	78.92	118	10.306	131	46.70	259	37.996	65	15.54	70
26	6.102	45	54.56	230	25.501	34	77.74	145	10.175	83	44.11	291	37.931	27	14.84	57
Okt. 6	6.057	26	52.26	225	25.467	6	76.29	172	10.092	29	41.20	316	37.904	16	14.27	39
16	6.083	100	50.01	210	25.473	50	74.57	196	10.063	31	38.04	334	37.920	63	13.88	17
26	6.183	177	47.91	186	25.523	99	72.61	217	10.094	95	34.70	347	37.983	113	13.71	9
Nov. 5	6.360	252	46.05	154	25.622	148	70.44	236	10.189	161	31.23	351	38.096	164	13.80	38
15	6.612	320	44.51	114	25.770	194	68.08	248	10.350	224	27.72	346	38.260	211	14.18	67
25	6.932	380	43.37	68	25.964	236	65.60	254	10.574	285	24.26	331	38.471	253	14.85	97
Dez. 5	7.312	428	42.69	19	26.200	273	63.06	252	10.859	337	20.95	306	38.724	289	15.82	124
15	7.740	462	42.50	31	26.473	301	60.54	244	11.196	379	17.89	272	39.013	314	17.06	147
25	8.202	480	42.81	80	26.774	320	58.10	228	11.575	410	15.17	229	39.327	330	18.53	167
35	8.682		43.61		27.094		55.82		11.985		12.88		39.657		20.20	
Mittl. Ort	4.326		43.03		24.598		78.40		10.668		43.89		36.371		9.81	
sec δ, tg δ	1.668		— 1.335		1.050		+0.320		1.543		+1.175		1.051		—0.322	
a, *a'*	+3.8		—18.3		+2.9		—18.0		+2.4		—18.0		+3.3		—17.9	
b, *b'*	+0.08		+ 0.41		—0.02		+ 0.44		—0.07		+ 0.44		+0.02		+ 0.45	

Tag		512) ζ Centauri AR.		Dekl.		513) η Bootis AR.		Dekl.		517) 11 Bootis AR.		Dekl.		516) τ Virginis AR.		Dekl.	
1940		$13^h\ 51^m$		−46° 59′		$13^h\ 51^m$		+18° 41′		$13^h\ 58^m$		+27° 40′		$13^h\ 58^m$		+1° 49′	
Jan.	1	47.600	439	22.83	106	49.419	325	45.75	216	26.825	335	23.91	220	35.398	317	62.46	202
	11	48.039	438	23.89	144	49.744	328	43.59	186	27.160	341	21.71	183	35.715	319	60.44	190
	21	48.477	424	25.33	178	50.072	320	41.73	151	27.501	336	19.88	138	36.034	311	58.54	172
	31	48.901	401	27.11	207	50.392	303	40.22	110	27.837	320	18.50	90	36.345	295	56.82	149
Febr.	10	49.302	368	29.18	227	50.695	278	39.12	68	28.157	295	17.60	41	36.640	272	55.33	121
	20	49.670	330	31.45	242	50.973	248	38.44	24	28.452	265	17.19	9	36.912	244	54.12	91
März	1	50.000	288	33.87	252	51.221	214	38.20	18	28.717	230	17.28	57	37.156	213	53.21	60
	11	50.288	244	36.39	255	51.435	178	38.38	56	28.947	191	17.85	99	37.369	180	52.61	29
	21	50.532	198	38.94	253	51.613	142	38.94	90	29.138	152	18.84	135	37.549	147	52.32	2
	31	50.730	153	41.47	246	51.755	105	39.84	118	29.290	113	20.19	165	37.696	114	52.30	24
Apr.	10	50.883	110	43.93	235	51.860	70	41.02	139	29.403	75	21.84	186	37.810	83	52.54	46
	20	[20] 50.993	66	46.28	221	[20] 51.930	38	42.41	153	[11] 29.478	39	23.70	199	[21] 37.893	53	53.00	62
	29	51.059	25	48.49	202	51.968	8	43.94	161	29.517	6	25.69	204	37.946	26	53.62	75
Mai	9	51.084	15	50.51	180	51.976	20	45.55	161	29.523	26	27.73	202	37.972	0	54.37	83
	19	51.069	54	52.31	155	51.956	45	47.16	157	29.497	53	29.75	192	37.972	25	55.20	89
	29	51.015	90	53.86	127	51.911	68	48.73	146	29.444	79	31.67	176	37.947	47	56.09	90
Juni	8	50.925	124	55.13	96	51.843	88	50.19	132	29.365	102	33.43	155	37.900	68	56.99	88
	18	50.801	154	56.09	62	51.755	107	51.51	114	29.263	122	34.98	131	37.832	87	57.87	84
	28	50.647	180	56.71	28	51.648	121	52.65	93	29.141	138	36.29	103	37.745	104	58.71	78
Juli	8	50.467	202	56.99	8	51.527	134	53.58	70	29.003	152	37.32	72	37.641	117	59.49	70
	18	50.265	216	56.91	44	51.393	142	54.28	45	28.851	160	38.04	39	37.524	128	60.19	61
	28	50.049	222	56.47	79	51.251	146	54.73	19	28.691	165	38.43	6	37.396	134	60.80	50
Aug.	7	49.827	220	55.68	112	51.105	145	54.92	9	28.526	164	38.49	28	37.262	134	61.30	36
	17	49.607	209	54.56	141	50.960	137	54.83	36	28.362	156	38.21	62	37.128	130	61.66	22
	27	49.398	186	53.15	166	50.823	124	54.47	65	28.206	143	37.59	97	36.998	117	61.88	6
Sept.	6	49.212	152	51.49	185	50.699	104	53.82	93	28.063	121	36.62	129	36.881	99	61.94	12
	16	49.060	109	49.64	198	50.595	76	52.89	122	27.942	94	35.33	162	36.782	72	61.82	32
	26	48.951	55	47.66	201	50.519	42	51.67	150	27.848	58	33.71	192	36.710	40	61.50	55
Okt.	6	48.896	5	45.65	196	50.477	2	50.17	176	27.790	16	31.79	220	36.670	0	60.95	78
	16	48.901	71	43.69	183	50.475	43	48.41	201	27.774	30	29.59	245	36.670	44	60.17	102
	26	48.972	141	41.86	161	50.518	91	46.40	223	27.804	81	27.14	265	36.714	90	59.15	127
Nov.	5	49.113	208	40.25	131	50.609	141	44.17	241	27.885	133	24.49	280	36.804	139	57.88	150
	15	49.321	272	38.94	95	50.750	188	41.76	253	28.018	184	21.69	289	36.943	186	56.38	171
	25	49.593	328	37.99	54	50.938	231	39.23	259	28.202	230	18.80	289	37.129	227	54.67	188
Dez.	5	49.921	374	37.45	10	51.169	270	36.64	258	28.432	271	15.91	282	37.356	263	52.79	200
	15	50.295	409	37.35	36	51.439	298	34.06	249	28.703	304	13.09	266	37.619	292	50.79	207
	25	50.704	430	37.71	79	51.737	318	31.57	232	29.007	327	10.43	240	37.911	310	48.72	207
	35	51.134		38.50		52.055		29.25		29.334		8.03		38.221		46.65	
Mittl. Ort		47.093		37.37		49.609		51.89		27.204		32.37		35.410		62.81	
sec δ, tg δ		1.466		−1.072		1.056		+0.338		1.129		+0.524		1.001		+0.032	
a, a′		+3.7		−17.7		+2.9		−17.7		+2.7		−17.4		+3.1		−17.4	
b, b′		+0.06		+ 0.47		−0.02		+ 0.47		−0.03		+ 0.49		0.00		+ 0.49	

Scheinbare Sternörter 1940

Tag	518) β Centauri AR.		518) β Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.		520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		522) 12 *d* Bootis AR.		522) 12 *d* Bootis Dekl.	
1940	$13^h\ 59^m$		$-60°\ 4'$		$14^h\ 2^m$		$+64°\ 39'$		$14^h\ 3^m$		$-36°\ 4'$		$14^h\ 7^m$		$+25°\ 22'$	
	s		"		s		"		s		"		s		"	
Jan. 1	34.79	55	46.56	60	43.72	57	27.72	195	8.886	380	20.43	123	39.314	329	23.19	224
11	35.34	58	47.16	109	44.29	59	25.77	135	9.266	382	21.66	153	39.643	335	20.95	189
21	35.92	56	48.25	154	44.88	59	24.42	69	9.648	372	23.19	176	39.978	331	19.06	147
31	36.48	53	49.79	193	45.47	58	23.73	2	10.020	354	24.95	193	40.309	318	17.59	102
Febr. 10	37.01	49	51.72	227	46.05	54	23.71	64	10.374	327	26.88	204	40.627	295	16.57	53
20	37.50	44	53.99	253	46.59	48	24.35	126	10.701	295	28.92	211	40.922	267	16.04	4
März 1	37.94	39	56.52	274	47.07	42	25.61	183	10.996	260	31.03	212	41.189	234	16.00	42
11	38.33	33	59.26	287	47.49	34	27.44	230	11.256	223	33.15	209	41.423	197	16.42	85
21	38.66	28	62.13	294	47.83	26	29.74	268	11.479	185	35.24	201	41.620	160	17.27	123
31	38.94	21	65.07	295	48.09	17	32.42	294	11.664	148	37.25	191	41.780	122	18.50	153
Apr. 10	39.15	15	68.02	291	48.26	8	35.36	309	11.812	111	39.16	178	41.902	85	20.03	175
20	[22] 39.30	9	70.93	279	[22] 48.34	1	38.45	313	[22] 11.923	75	40.94	163	[24] 41.987	51	21.78	190
29	39.39	3	73.72	264	48.33	8	41.58	304	11.998	40	42.57	145	42.038	17	23.68	196
Mai 9	39.42	3	76.36	243	48.25	17	44.62	286	12.038	7	44.02	127	42.055	13	25.64	196
19	39.39	8	78.79	217	48.08	23	47.48	259	12.045	25	45.29	106	42.042	42	27.60	189
29	39.31	14	80.96	186	47.85	28	50.07	224	12.020	56	46.35	83	42.000	68	29.49	175
Juni 8	39.17	19	82.82	151	47.57	34	52.31	183	11.964	86	47.18	59	41.932	92	31.24	157
18	38.98	23	84.33	113	47.23	38	54.14	137	11.878	112	47.77	34	41.840	113	32.81	134
28	38.75	27	85.46	71	46.85	40	55.51	87	11.766	137	48.11	8	41.727	130	34.15	108
Juli 8	38.48	30	86.17	27	46.45	43	56.38	36	11.629	156	48.19	18	41.597	146	35.23	78
18	38.18	33	86.44	17	46.02	44	56.74	16	11.473	171	48.01	45	41.451	156	36.01	49
28	37.85	33	86.27	62	45.58	43	56.58	68	11.302	180	47.56	70	41.295	162	36.50	16
Aug. 7	37.52	33	85.65	106	45.15	42	55.90	118	11.122	181	46.86	94	41.133	163	36.66	17
17	37.19	31	84.59	146	44.73	40	54.72	167	10.941	174	45.92	115	40.970	158	36.49	49
27	36.88	28	83.13	181	44.33	37	53.05	213	10.767	158	44.77	131	40.812	145	36.00	83
Sept. 6	36.60	24	81.32	211	43.96	32	50.92	254	10.609	133	43.46	142	40.667	125	35.17	115
16	36.36	17	79.21	233	43.64	26	48.38	291	10.476	99	42.04	149	40.542	100	34.02	148
26	36.19	11	76.88	246	43.38	20	45.47	323	10.377	56	40.55	148	40.442	65	32.54	178
Okt. 6	36.08	2	74.42	250	43.18	12	42.24	348	10.321	5	39.07	140	40.377	24	30.76	206
16	36.06	7	71.92	243	43.06	3	38.76	366	10.316	51	37.67	125	40.353	22	28.70	232
26	36.13	16	69.49	226	43.03	5	35.10	376	10.367	110	36.42	103	40.375	71	26.38	254
Nov. 5	36.29	25	67.23	199	43.08	15	31.34	377	10.477	169	35.39	75	40.446	123	23.84	270
15	36.54	34	65.24	163	43.23	25	27.57	368	10.646	226	34.64	42	40.569	173	21.14	280
25	36.88	41	63.61	122	43.48	34	23.89	349	10.872	276	34.22	6	40.742	220	18.34	284
Dez. 5	37.29	47	62.39	73	43.82	41	20.40	320	11.148	318	34.16	32	40.962	262	15.50	279
15	37.76	52	61.66	22	44.23	49	17.20	280	11.466	351	34.48	69	41.224	295	12.71	266
25	38.28	56	61.44	29	44.72	55	14.40	231	11.817	371	35.17	103	41.519	319	10.05	243
35	38.84		61.73		45.27		12.09		12.188		36.20		41.838		7.62	
Mittl. Ort	34.20		64.08		45.72		43.65		8.573		32.30		39.704		30.50	
sec δ, tg δ	2.005		−1.738		2.337		+2.112		1.237		−0.729		1.107		+0.474	
a, *a'*	+4.2		−17.4		+1.6		−17.2		+3.6		−17.2		+2.7		−17.0	
b, *b'*	+0.10		+ 0.50		−0.12		+ 0.51		+0.04		+ 0.51		−0.03		+ 0.53	

Tag	524) 4 Ursae min.				523) ϰ Virginis				525) ι Virginis				526) α Bootis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$14^h\ 8^m$		$+77°\ 49'$		$14^h\ 9^m$		$-9°\ 59'$		$14^h\ 12^m$		$-5°\ 42'$		$14^h\ 12^m$		$+19°\ 29'$	
	s		"		s		"		s		"		s		"	
Jan. 1	58.01	103	29.31	179	41.495	321	39.21	179	51.865	317	51.44	188	55.076	317	33.22	228
11	59.04	108	27.52	117	41.816	325	41.00	181	52.182	321	53.32	185	55.393	324	30.94	199
21	60.12	111	26.35	49	42.141	318	42.81	176	52.503	315	55.17	176	55.717	321	28.95	163
31	61.23	109	25.86	19	42.459	304	44.57	165	52.818	301	56.93	160	56.038	307	27.32	122
Febr. 10	62.32	104	26.05	85	42.763	282	46.22	150	53.119	281	58.53	141	56.345	287	26.10	78
20	63.36	94	26.90	147	43.045	255	47.72	131	53.400	254	59.94	118	56.632	260	25.32	33
März 1	64.30	81	28.37	203	43.300	225	49.03	109	53.654	225	61.12	92	56.892	229	24.99	11
11	65.11	66	30.40	249	43.525	194	50.12	87	53.879	194	62.04	67	57.121	194	25.10	51
21	65.77	49	32.89	285	43.719	162	50.99	64	54.073	162	62.71	42	57.315	160	25.61	87
31	66.26	31	35.74	309	43.881	129	51.63	43	54.235	131	63.13	19	57.475	124	26.48	117
Apr. 10	66.57	13	38.83	321	44.010	99	52.06	24	54.366	100	63.32	1	57.599	90	27.65	141
20	66.70	6	42.04	322	44.109	70	52.30	5	54.466	71	63.31	19	57.689	57	29.06	156
29	24 66.64	24	45.26	310	24 44.179	42	52.35	9	25 54.537	43	63.12	33	25 57.746	25	30.62	166
Mai 9	66.40	40	48.36	289	44.221	15	52.26	21	54.580	16	62.79	45	57.771	3	32.28	168
19	66.00	55	51.25	258	44.236	11	52.05	32	54.596	9	62.34	53	57.768	31	33.96	164
29	65.45	67	53.83	220	44.225	35	51.73	41	54.587	34	61.81	58	57.737	57	35.60	154
Juni 8	64.78	78	56.03	176	44.190	59	51.32	47	54.553	57	61.23	63	57.680	80	37.14	141
18	64.00	86	57.79	127	44.131	80	50.85	53	54.496	79	60.60	64	57.600	102	38.55	122
28	63.14	93	59.06	74	44.051	99	50.32	57	54.417	98	59.96	64	57.498	120	39.77	100
Juli 8	62.21	96	59.80	21	43.952	116	49.75	59	54.319	114	59.32	63	57.378	136	40.77	77
18	61.25	99	60.01	33	43.836	129	49.16	62	54.205	128	58.69	61	57.242	147	41.54	51
28	60.26	97	59.68	86	43.707	137	48.54	61	54.077	136	58.08	56	57.095	154	42.05	24
Aug. 7	59.29	95	58.82	138	43.570	140	47.93	60	53.941	139	57.52	51	56.941	157	42.29	5
17	58.34	89	57.44	187	43.430	137	47.33	56	53.802	137	57.01	43	56.784	153	42.24	34
27	57.45	82	55.57	233	43.293	126	46.77	50	53.665	126	56.58	33	56.631	142	41.90	64
Sept. 6	56.63	73	53.24	272	43.167	108	46.27	40	53.539	109	56.25	20	56.489	124	41.26	93
16	55.90	62	50.52	308	43.059	81	45.87	29	53.430	84	56.05	6	56.365	99	40.33	123
26	55.28	48	47.44	338	42.978	48	45.58	12	53.346	51	55.99	12	56.266	66	39.10	152
Okt. 6	54.80	34	44.06	360	42.930	8	45.46	6	53.295	12	56.11	33	56.200	26	37.58	180
16	54.46	17	40.46	376	42.922	37	45.52	28	53.283	32	56.44	56	56.174	17	35.78	206
26	54.29	0	36.70	382	42.959	85	45.80	52	53.315	80	57.00	79	56.191	66	33.72	229
Nov. 5	54.29	19	32.88	379	43.044	135	46.32	78	53.395	129	57.79	104	56.257	116	31.43	247
15	54.48	37	29.09	367	43.179	183	47.10	103	53.524	177	58.83	128	56.373	166	28.96	261
25	54.85	55	25.42	344	43.362	227	48.13	126	53.701	221	60.11	150	56.539	211	26.35	269
Dez. 5	55.40	71	21.98	311	43.589	265	49.39	148	53.922	259	61.61	167	56.750	252	23.66	268
15	56.11	86	18.87	268	43.854	293	50.87	165	54.181	287	63.28	181	57.002	284	20.98	260
25	56.97	97	16.19	217	44.147	313	52.52	176	54.468	309	65.09	188	57.286	308	18.38	244
35	57.94		14.02		44.460		54.28		54.777		66.97		57.594		15.94	
Mittl. Ort	62.93		45.88		41.448		43.19		51.877		54.13		55.397		38.52	
sec δ, tg δ	4.743		+4.637		1.015		−0.176		1.005		−0.100		1.061		+0.354	
a, *a'*	−0.2		−16.9		+3.2		−16.9		+3.1		−16.8		+2.8		−16.8	
b, *b'*	−0.26		+ 0.53		+0.01		+ 0.54		+0.01		+ 0.55		−0.02		+ 0.55	

Scheinbare Sternörter 1940

Tag	527) λ Bootis AR.		527) λ Bootis Dekl.		531) ϑ Bootis AR.		531) ϑ Bootis Dekl.		534) ρ Bootis AR.		534) ρ Bootis Dekl.		535) γ Bootis AR.		535) γ Bootis Dekl.	
1940	$14^h\ 14^m$		+46° 21′		$14^h\ 23^m$		+52° 7′		$14^h\ 29^m$		+30° 37′		$14^h\ 29^m$		+38° 33′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.199	387	35.23	227	7.905	414	26.17	233	13.975	328	54.81	237	38.866	348	62.33	241
11	5.586	401	32.96	175	8.319	433	23.84	178	14.303	341	52.44	199	39.214	362	59.92	195
21	5.987	402	31.21	118	8.752	439	22.06	120	14.644	342	50.45	153	39.576	365	57.97	145
31	6.389	390	30.03	58	9.191	429	20.86	56	14.986	332	48.92	104	39.941	357	56.52	89
Febr. 10	6.779	366	29.45	3	9.620	407	20.30	9	15.318	315	47.88	51	40.298	339	55.63	31
20	7.145	333	29.48	64	10.027	373	20.39	70	15.633	289	47.37	2	40.637	311	55.32	27
März 1	7.478	292	30.12	119	10.400	330	21.09	129	15.922	258	47.39	54	40.948	277	55.59	82
11	7.770	245	31.31	169	10.730	279	22.38	181	16.180	222	47.93	100	41.225	239	56.41	131
21	8.015	195	33.00	210	11.009	223	24.19	223	16.402	185	48.93	142	41.464	196	57.72	174
31	8.210	144	35.10	242	11.232	167	26.42	256	16.587	147	50.35	175	41.660	154	59.46	209
Apr. 10	8.354	93	37.52	263	11.399	107	28.98	279	16.734	108	52.10	201	41.814	110	61.55	234
20	8.447	42	40.15	275	11.506	51	31.77	290	16.842	71	54.11	217	41.924	68	63.89	250
29	^{25}8.489	4	42.90	275	^{27}11.557	4	34.67	291	^{29}16.913	34	56.28	226	^{29}41.992	27	66.39	256
Mai 9	8.485	48	45.65	267	11.553	55	37.58	282	16.947	1	58.54	226	42.019	12	68.95	253
19	8.437	89	48.32	250	11.498	104	40.40	264	16.948	32	60.80	217	42.007	49	71.48	242
29	8.348	125	50.82	225	11.394	147	43.04	238	16.916	63	62.97	203	41.958	83	73.90	223
Juni 8	8.223	158	53.07	193	11.247	184	45.42	204	16.853	90	65.00	183	41.875	112	76.13	197
18	8.065	185	55.00	158	11.063	218	47.46	166	16.763	115	66.83	157	41.763	141	78.10	167
28	7.880	208	56.58	117	10.845	245	49.12	123	16.648	138	68.40	128	41.622	165	79.77	133
Juli 8	7.672	225	57.75	74	10.600	266	50.35	77	16.510	157	69.68	95	41.457	184	81.10	95
18	7.447	238	58.49	30	10.334	280	51.12	30	16.353	170	70.63	60	41.273	199	82.05	54
28	7.209	243	58.79	16	10.054	288	51.42	18	16.183	180	71.23	24	41.074	208	82.59	13
Aug. 7	6.966	242	58.63	62	9.766	287	51.24	67	16.003	185	71.47	12	40.866	211	82.72	28
17	6.724	233	58.01	107	9.479	279	50.57	114	15.818	182	71.35	50	40.655	208	82.44	71
27	6.491	217	56.94	150	9.200	260	49.43	159	15.636	172	70.85	88	40.447	196	81.73	113
Sept. 6	6.274	191	55.44	191	8.940	234	47.84	203	15.464	154	69.97	124	40.251	177	80.60	152
16	6.083	158	53.53	229	8.706	198	45.81	242	15.310	129	68.73	159	40.074	149	79.08	190
26	5.925	116	51.24	263	8.508	153	43.39	278	15.181	96	67.14	193	39.925	113	77.18	226
Okt. 6	5.809	67	48.61	293	8.355	98	40.61	309	15.085	55	65.21	223	39.812	70	74.92	256
16	5.742	10	45.68	318	8.257	37	37.52	334	15.030	9	62.98	250	39.742	19	72.36	284
26	5.732	50	42.50	335	8.220	29	34.18	351	15.021	43	60.48	274	39.723	35	69.52	306
Nov. 5	5.782	114	39.15	345	8.249	100	30.67	361	15.064	97	57.74	291	39.758	93	66.46	321
15	5.896	177	35.70	347	8.349	170	27.06	362	15.161	150	54.83	301	39.851	151	63.25	328
25	6.073	237	32.23	339	8.519	237	23.44	352	15.311	201	51.82	304	40.002	207	59.97	327
Dez. 5	6.310	292	28.84	321	8.756	300	19.92	333	15.512	247	48.78	298	40.209	257	56.70	316
15	6.602	337	25.63	293	9.056	353	16.59	303	15.759	286	45.80	283	40.466	299	53.54	295
25	6.939	372	22.70	256	9.409	395	13.56	263	16.045	315	42.97	258	40.765	333	50.59	265
35	7.311		20.14		9.804		10.93		16.360		40.39		41.098		47.94	
Mittl. Ort	6.172		47.36		9.195		38.78		14.593		62.30		39.685		71.72	
sec δ, tg δ	1.449		+1.049		1.629		+1.286		1.162		+0.592		1.279		+0.797	
a, *a′*	+2.3		−16.7		+2.1		−16.3		+2.6		−15.9		+2.4		−15.9	
b, *b′*	−0.06		+ 0.55		−0.07		+ 0.58		−0.03		+ 0.61		−0.04		+ 0.61	

Tag	537) η Centauri AR.		Dekl.		538) α Centauri [1]) AR.		Dekl.		543) ζ Bootis *m* AR.		Dekl.		545) μ Virginis AR.		Dekl.	
1940	$14^h\ 31^m$		$-41°\ 53'$		$14^h\ 35^m$		$-60°\ 35'$		$14^h\ 38^m$		$+13°\ 58'$		$14^h\ 39^m$		$-5°\ 23'$	
	s		"		s		"		s		"		s		"	
Jan. 1	41.361	400	29.54	76	30.88	56	4.90	19	16.521	305	62.65	223	53.507	308	50.75	181
11	41.761	409	30.30	110	31.44	57	5.09	68	16.826	316	60.42	199	53.815	317	52.56	179
21	42.170	405	31.40	139	32.01	56	5.77	112	17.142	317	58.43	170	54.132	316	54.35	169
31	42.575	391	32.79	164	32.57	55	6.89	152	17.459	308	56.73	134	54.448	307	56.04	154
Febr. 10	42.966	370	34.43	183	33.12	51	8.41	189	17.767	292	55.39	96	54.755	291	57.58	134
20	43.336	342	36.26	196	33.63	48	10.30	218	18.059	270	54.43	54	55.046	269	58.92	111
März 1	43.678	309	38.22	205	34.11	43	12.48	242	18.329	243	53.89	13	55.315	243	60.03	86
11	43.987	273	40.27	208	34.54	37	14.90	259	18.572	214	53.76	27	55.558	215	60.89	60
21	44.260	235	42.35	209	34.91	32	17.49	271	18.786	182	54.03	62	55.773	186	61.49	36
31	44.495	197	44.44	204	35.23	26	20.20	276	18.968	150	54.65	93	55.959	156	61.85	12
Apr. 10	44.692	158	46.48	197	35.49	20	22.96	276	19.118	118	55.58	118	56.115	127	61.97	9
20	44.850	119	48.45	187	35.69	13	25.72	272	19.236	87	56.76	137	56.242	98	61.88	26
30	30 44.969	81	50.32	174	1 35.82	8	28.44	260	1 19.323	57	58.13	150	2 56.340	69	61.62	41
Mai 9	45.050	42	52.06	159	35.90	1	31.04	245	19.380	27	59.63	155	56.409	41	61.21	51
19	45.092	3	53.65	140	35.91	5	33.49	225	19.407	2	61.18	156	56.450	14	60.70	59
29	45.095	34	55.05	119	35.86	11	35.74	199	19.405	28	62.74	151	56.464	13	60.11	64
Juni 8	45.061	70	56.24	96	35.75	16	37.73	169	19.377	55	64.25	141	56.451	40	59.47	67
18	44.991	105	57.20	70	35.59	22	39.42	134	19.322	79	65.66	128	56.411	64	58.80	67
28	44.886	136	57.90	43	35.37	27	40.76	97	19.243	101	66.94	111	56.347	87	58.13	66
Juli 8	44.750	164	58.33	14	35.10	30	41.73	56	19.142	121	68.05	92	56.260	108	57.47	64
18	44.586	185	58.47	16	34.80	33	42.29	13	19.021	137	68.97	70	56.152	125	56.83	60
28	44.401	201	58.31	45	34.47	36	42.42	31	18.884	149	69.67	47	56.027	139	56.23	55
Aug. 7	44.200	209	57.86	74	34.11	36	42.11	74	18.735	155	70.14	23	55.888	146	55.68	48
17	43.991	207	57.12	102	33.75	35	41.37	116	18.580	155	70.37	2	55.742	147	55.20	40
27	43.784	194	56.10	125	33.40	33	40.21	154	18.425	149	70.35	29	55.595	141	54.80	31
Sept. 6	43.590	172	54.85	144	33.07	29	38.67	187	18.276	134	70.06	56	55.454	127	54.49	18
16	43.418	139	53.41	159	32.78	23	36.80	215	18.142	113	69.50	84	55.327	105	54.31	4
26	43.279	94	51.82	166	32.55	17	34.65	233	18.029	82	68.66	111	55.222	74	54.27	13
Okt. 6	43.185	42	50.16	165	32.38	9	32.32	244	17.947	46	67.55	138	55.148	38	54.40	32
16	43.143	17	48.51	158	32.29	0	29.88	244	17.901	3	66.17	165	55.110	6	54.72	53
26	43.160	81	46.93	143	32.29	10	27.44	234	17.898	44	64.52	189	55.116	53	55.25	76
Nov. 5	43.241	146	45.50	120	32.39	19	25.10	214	17.942	94	62.63	211	55.169	103	56.01	100
15	43.387	209	44.30	92	32.58	28	22.96	186	18.036	144	60.52	228	55.272	152	57.01	122
25	43.596	268	43.38	58	32.86	36	21.10	149	18.180	190	58.24	240	55.424	198	58.23	143
Dez. 5	43.864	318	42.80	21	33.22	44	19.61	106	18.370	232	55.84	245	55.622	239	59.66	161
15	44.182	357	42.59	17	33.66	49	18.55	60	18.602	267	53.39	244	55.861	272	61.27	174
25	44.539	386	42.76	55	34.15	54	17.95	10	18.869	294	50.95	233	56.133	296	63.01	181
35	44.925		43.31		34.69		17.85		19.163		48.62		56.429		64.82	
Mittl. Ort	41.220		43.40		30.64		22.89		16.893		65.02		53.666		54.30	
sec δ, tg δ	1.343		—0.897		2.036		—1.774		1.030		+0.249		1.004		—0.095	
a, *a'*	+3.8		—15.8		+4.6		—15.6		+2.9		—15.5		+3.2		—15.4	
b, *b'*	+0.05		+ 0.61		+0.09		+ 0.63		—0.01		+ 0.64		0.00		+ 0.64	

[1]) Ort des helleren Sterns. Die jährliche Parallaxe (0.″758) ist bereits berücksichtigt.

Scheinbare Sternörter 1940

Tag	542) α Apodis AR.		542) Dekl.		547) 109 Virginis AR.		547) Dekl.		548) α² Librae AR.		548) Dekl.		549) Grb 2164 Drac AR.		549) Dekl.	
1940	$14^h\ 40^m$		$-78°\ 47'$		$14^h\ 43^m$		$+2°\ 8'$		$14^h\ 47^m$		$-15°\ 47'$		$14^h\ 49^m$		$+59°\ 31'$	
	s		″		s		″		s		″		s		″	
Jan. 1	18.45	128	12.35	53	12.508	302	42.16	198	33.145	317	29.97	148	52.820	449	62.29	251
11	19.73	133	11.82	5	12.810	312	40.18	188	33.462	326	31.45	156	53.269	485	59.78	197
21	21.06	134	11.87	61	13.122	312	38.30	170	33.788	326	33.01	157	53.754	502	57.81	136
31	22.40	132	12.48	113	13.434	305	36.60	148	34.114	318	34.58	155	54.256	505	56.45	71
Febr. 10	23.72	126	13.61	161	13.739	289	35.12	120	34.432	303	36.13	146	54.761	489	55.74	4
20	24.98	119	15.22	206	14.028	268	33.92	89	34.735	282	37.59	134	55.250	459	55.70	63
März 1	26.17	109	17.28	244	14.296	243	33.03	57	35.017	257	38.93	119	55.709	417	56.33	125
11	27.26	96	19.72	275	14.539	215	32.46	26	35.274	229	40.12	101	56.126	363	57.58	180
21	28.22	83	22.47	299	14.754	185	32.20	3	35.503	200	41.13	83	56.489	300	59.38	229
31	29.05	68	25.46	317	14.939	156	32.23	31	35.703	170	41.96	66	56.789	234	61.67	266
Apr. 10	29.73	53	28.63	329	15.095	126	32.54	53	35.873	141	42.62	49	57.023	163	64.33	293
20	30.26	37	31.92	332	15.221	96	33.07	72	36.014	112	43.11	33	57.186	93	67.26	309
30	30.63	19	35.24	329	[3] 15.317	68	33.79	86	36.126	82	43.44	20	[4] 57.279	24	70.35	313
Mai 9	[2] 30.82	3	38.53	319	15.385	40	34.65	95	[4] 36.208	53	43.64	7	57.303	44	73.48	307
19	30.85	14	41.72	301	15.425	12	35.60	100	36.261	24	43.71	4	57.259	108	76.55	291
29	30.71	31	44.73	277	15.437	15	36.60	102	36.285	5	43.67	12	57.151	166	79.46	266
Juni 8	30.40	46	47.50	246	15.422	41	37.62	99	36.280	33	43.55	21	56.985	219	82.12	234
18	29.94	61	49.96	209	15.381	66	38.61	94	36.247	60	43.34	29	56.766	266	84.46	195
28	29.33	73	52.05	166	15.315	89	39.55	87	36.187	86	43.05	36	56.500	305	86.41	152
Juli 8	28.60	83	53.71	119	15.226	109	40.42	78	36.101	109	42.69	42	56.195	337	87.93	105
18	27.77	92	54.90	68	15.117	127	41.20	67	35.992	128	42.27	48	55.858	360	88.98	55
28	26.85	97	55.58	14	14.990	140	41.87	54	35.864	144	41.79	53	55.498	376	89.53	4
Aug. 7	25.88	98	55.72	41	14.850	148	42.41	41	35.720	153	41.26	56	55.122	381	89.57	48
17	24.90	96	55.31	94	14.702	149	42.82	26	35.567	155	40.70	58	54.741	375	89.09	97
27	23.94	90	54.37	146	14.553	143	43.08	8	35.412	150	40.12	59	54.366	360	88.12	147
Sept. 6	23.04	81	52.91	193	14.410	131	43.16	9	35.262	136	39.53	55	54.006	333	86.65	193
16	22.23	67	50.98	233	14.279	109	43.07	29	35.126	114	38.98	50	53.673	295	84.72	237
26	21.56	51	48.65	265	14.170	80	42.78	50	35.012	83	38.48	40	53.378	245	82.35	275
Okt. 6	21.05	32	46.00	288	14.090	44	42.28	73	34.929	45	38.08	27	53.133	184	79.60	310
16	20.73	10	43.12	300	14.046	1	41.55	97	34.884	1	37.81	10	52.949	115	76.50	338
26	20.63	12	40.12	299	14.045	46	40.58	121	34.885	50	37.71	10	52.834	38	73.12	358
Nov. 5	20.75	35	37.13	288	14.091	95	39.37	143	34.935	101	37.81	33	52.796	45	69.54	371
15	21.10	57	34.25	264	14.186	144	37.94	164	35.036	153	38.14	57	52.841	129	65.83	374
25	21.67	78	31.61	231	14.330	190	36.30	182	35.189	201	38.71	82	52.970	213	62.09	367
Dez. 5	22.45	95	29.30	189	14.520	231	34.48	195	35.390	243	39.53	105	53.183	292	58.42	350
15	23.40	110	27.41	140	14.751	265	32.53	202	35.633	278	40.58	125	53.475	362	54.92	321
25	24.50	122	26.01	86	15.016	290	30.51	202	35.911	304	41.83	141	53.837	421	51.71	281
35	25.72		25.15		15.306		28.49		36.215		43.24		54.258		48.90	
Mittl. Ort	18.60		32.52		12.759		40.78		33.259		36.88		54.800		74.01	
sec δ, tg δ	5.145		−5.047		1.001		+0.037		1.039		−0.283		1.972		+1.700	
a, a'	+7.4		−15.3		+3.0		−15.2		+3.3		−14.9		+1.5		−14.8	
b, b'	+0.26		+ 0.64		0.00		+ 0.65		+0.01		+ 0.67		−0.08		+ 0.68	

Tag	550) β Ursae min. AR.		550) Dekl.		551) Pi XIV 221 Boot AR.		551) Dekl.		552) β Lupi AR.		552) Dekl.		555) β Bootis AR.		555) Dekl.	
1940	14^h 50^m		+74° 23′		14^h 53^m		+14° 41′		14^h 54^m		−42° 53′		14^h 59^m		+40° 37′	
	s		″		s		″		s		″		s		″	
Jan. 1	47.02	75	49.68	234	22.723	298	14.10	225	35.448	396	22.40	48	40.022	334	27.09	262
11	47.77	82	47.34	177	23.021	312	11.85	203	35.844	409	22.88	82	40.356	356	24.47	218
21	48.59	86	45.57	112	23.333	315	9.82	174	36.253	412	23.70	112	40.712	367	22.29	168
31	49.45	88	44.45	45	23.648	310	8.08	138	36.665	404	24.82	138	41.079	366	20.61	112
Febr. 10	50.33	86	44.00	23	23.958	297	6.70	98	37.069	387	26.20	159	41.445	355	19.49	53
20	51.19	82	44.23	90	24.255	277	5.72	56	37.456	363	27.79	175	41.800	334	18.96	8
März 1	52.01	73	45.13	152	24.532	252	5.16	14	37.819	334	29.54	186	42.134	305	19.04	66
11	52.74	64	46.65	206	24.784	225	5.02	26	38.153	301	31.40	193	42.439	270	19.70	120
21	53.38	52	48.71	253	25.009	195	5.28	64	38.454	265	33.33	195	42.709	232	20.90	167
31	53.90	39	51.24	288	25.204	164	5.92	97	38.719	229	35.28	196	42.941	190	22.57	207
Apr. 10	54.29	26	54.12	311	25.368	132	6.89	122	38.948	191	37.24	191	43.131	148	24.64	237
20	54.55	11	57.23	323	25.500	102	8.11	143	39.139	152	39.15	184	43.279	104	27.01	258
30	5 54.66	4	60.46	324	5 25.602	71	9.54	157	5 39.291	113	40.99	175	7 43.383	60	29.59	269
Mai 9	54.62	16	63.70	314	25.673	40	11.11	163	39.404	72	42.74	163	43.443	19	32.28	271
19	54.46	29	66.84	293	25.713	11	12.74	164	39.476	32	44.37	148	43.462	22	34.99	262
29	54.17	41	69.77	263	25.724	17	14.38	160	39.508	9	45.85	130	43.440	60	37.61	247
Juni 8	53.76	51	72.40	227	25.707	46	15.98	150	39.499	49	47.15	110	43.380	97	40.08	224
18	53.25	59	74.67	184	25.661	72	17.48	137	39.450	86	48.25	87	43.283	129	42.32	195
28	52.66	67	76.51	137	25.589	96	18.85	119	39.364	123	49.12	61	43.154	160	44.27	160
Juli 8	51.99	72	77.88	86	25.493	118	20.04	99	39.241	156	49.73	33	42.994	186	45.87	123
18	51.27	76	78.74	33	25.375	136	21.03	78	39.085	183	50.06	5	42.808	206	47.10	83
28	50.51	79	79.07	19	25.239	151	21.81	53	38.902	203	50.11	25	42.602	222	47.93	40
Aug. 7	49.72	78	78.88	73	25.088	159	22.34	29	38.699	216	49.86	54	42.380	230	48.33	4
17	48.94	77	78.15	125	24.929	162	22.63	2	38.483	220	49.32	82	42.150	232	48.29	48
27	48.17	73	76.90	173	24.767	157	22.65	25	38.263	212	48.50	109	41.918	226	47.81	92
Sept. 6	47.44	68	75.17	220	24.610	146	22.40	53	38.051	193	47.41	130	41.692	211	46.89	134
16	46.76	61	72.97	262	24.464	125	21.87	81	37.858	163	46.11	148	41.481	186	45.55	175
26	46.15	51	70.35	299	24.339	97	21.06	110	37.695	122	44.63	160	41.295	153	43.80	214
Okt. 6	45.64	40	67.36	331	24.242	61	19.96	138	37.573	71	43.03	164	41.142	112	41.66	249
16	45.24	28	64.05	356	24.181	19	18.58	164	37.502	12	41.39	161	41.030	63	39.17	280
26	44.96	15	60.49	372	24.162	28	16.94	190	37.490	52	39.78	150	40.967	7	36.37	305
Nov. 5	44.81	0	56.77	380	24.190	78	15.04	211	37.542	118	38.28	132	40.960	52	33.32	324
15	44.81	15	52.97	379	24.268	128	12.93	229	37.660	184	36.96	109	41.012	112	30.08	336
25	44.96	30	49.18	368	24.396	176	10.64	242	37.844	246	35.87	78	41.124	171	26.72	337
Dez. 5	45.26	44	45.50	344	24.572	219	8.22	248	38.090	300	35.09	44	41.295	227	23.35	331
15	45.70	58	42.06	311	24.791	256	5.74	247	38.390	345	34.65	9	41.522	275	20.04	313
25	46.28	69	38.95	268	25.047	285	3.27	237	38.735	379	34.56	28	41.797	315	16.91	286
35	46.97		36.27		25.332		0.90		39.114		34.84		42.112		14.05	
Mittl. Ort	51.42		62.71		23.179		15.92		35.480		36.65		41.074		34.88	
sec δ, tg δ	3.719		+3.582		1.034		+0.262		1.365		−0.929		1.318		+0.858	
a, *a′*	−0.2		−14.7		+2.8		−14.6		+3.9		−14.5		+2.3		−14.2	
b, *b′*	−0.18		+ 0.68		−0.01		+ 0.69		+0.04		+ 0.69		−0.04		+ 0.71	

Scheinbare Sternörter 1940

Tag	556) σ Librae AR.		556) σ Librae Dekl.		557) ψ Bootis AR.		557) ψ Bootis Dekl.		558) ζ Lupi AR.		558) ζ Lupi Dekl.		563) δ Bootis AR.		563) δ Bootis Dekl.	
1940	$15^h\ 0^m$		$-25°\ 2'$		$15^h\ 1^m$		$+27°\ 10'$		$15^h\ 7^m$		$-51°\ 52'$		$15^h\ 13^m$		$+33°\ 31'$	
	s		"		s		"		s		"		s		"	
Jan. 1	32.999	329	40.93	108	51.676	304	45.61	250	57.493	448	4.33	0	4.021	307	70.19	263
11	33.328	341	42.01	125	51.980	321	43.11	216	57.941	468	4.33	41	4.328	330	67.56	226
21	33.669	344	43.26	138	52.301	329	40.95	176	58.409	475	4.74	77	4.658	340	65.30	182
31	34.013	337	44.64	144	52.630	327	39.19	130	58.884	471	5.51	112	4.998	341	63.48	131
Febr. 10	34.350	324	46.08	147	52.957	315	37.89	79	59.355	455	6.63	141	5.339	333	62.17	76
20	34.674	304	47.55	145	53.272	297	37.10	27	59.810	432	8.04	167	5.672	316	61.41	20
März 1	34.978	280	49.00	138	53.569	272	36.83	24	60.242	401	9.71	188	5.988	292	61.21	36
11	35.258	253	50.38	130	53.841	242	37.07	72	60.643	366	11.59	203	6.280	263	61.57	89
21	35.511	225	51.68	120	54.083	211	37.79	116	61.009	327	13.62	214	6.543	229	62.46	135
31	35.736	194	52.88	108	54.294	176	38.95	154	61.336	284	15.76	221	6.772	194	63.81	176
Apr. 10	35.930	164	53.96	96	54.470	142	40.49	183	61.620	241	17.97	224	6.966	157	65.57	208
20	36.094	134	54.92	84	54.612	106	42.32	204	61.861	195	20.21	223	7.123	119	67.65	231
30	[7] 36.228	102	55.76	72	[7] 54.718	72	44.36	218	[9] 62.056	146	22.44	217	7.242	81	69.96	246
Mai 9*)	36.330	71	56.48	60	54.790	38	46.54	223	62.202	98	24.61	209	7.323	44	72.42	250
19	36.401	39	57.08	49	54.828	4	48.77	220	62.300	48	26.70	195	[10] 7.367	6	74.92	247
29	36.440	7	57.57	36	54.832	29	50.97	210	62.348	3	28.65	178	7.373	30	77.39	236
Juni 8	36.447	25	57.93	24	54.803	59	53.07	194	62.345	53	30.43	156	7.343	64	79.75	218
18	36.422	56	58.17	12	54.744	89	55.01	173	62.292	101	31.99	132	7.279	96	81.93	194
28	36.366	86	58.29	1	54.655	115	56.74	148	62.191	146	33.31	103	7.183	127	83.87	165
Juli 8	36.280	112	58.28	14	54.540	139	58.22	118	62.045	188	34.34	72	7.056	153	85.52	132
18	36.168	135	58.14	28	54.401	160	59.40	86	61.857	224	35.06	37	6.903	175	86.84	96
28	36.033	154	57.86	41	54.241	174	60.26	53	61.633	250	35.43	1	6.728	193	87.80	58
Aug. 7	35.879	166	57.45	54	54.067	184	60.79	17	61.383	267	35.44	35	6.535	205	88.38	18
17	35.713	170	56.91	65	53.883	188	60.96	18	61.116	274	35.09	72	6.330	209	88.56	22
27	35.543	167	56.26	74	53.695	183	60.78	55	60.842	267	34.37	106	6.121	206	88.34	62
Sept. 6	35.376	154	55.52	81	53.512	172	60.23	91	60.575	248	33.31	137	5.915	195	87.72	103
16	35.222	131	54.71	83	53.340	151	59.32	127	60.327	214	31.94	164	5.720	175	86.69	142
26	35.091	100	53.88	81	53.189	122	58.05	161	60.113	167	30.30	183	5.545	146	85.27	179
Okt. 6	34.991	60	53.07	76	53.067	85	56.44	194	59.946	109	28.47	196	5.399	109	83.48	215
16	34.931	12	52.31	64	52.982	41	54.50	223	59.837	42	26.51	201	5.290	64	81.33	246
26	34.919	40	51.67	48	52.941	7	52.27	250	59.795	33	24.50	196	5.226	13	78.87	273
Nov. 5	34.959	95	51.19	27	52.948	60	49.77	271	59.828	112	22.54	184	5.213	42	76.14	296
15	35.054	150	50.92	4	53.008	114	47.06	286	59.940	189	20.70	163	5.255	99	73.18	310
25	35.204	201	50.88	21	53.122	166	44.20	295	60.129	261	19.07	135	5.354	153	70.08	318
Dez. 5	35.405	247	51.09	48	53.288	213	41.25	294	60.390	327	17.72	101	5.507	205	66.90	316
15	35.652	285	51.57	74	53.501	255	38.31	286	60.717	383	16.71	64	5.712	252	63.74	304
25	35.937	314	52.31	97	53.756	288	35.45	267	61.100	424	16.07	23	5.964	288	60.70	283
35	36.251		53.28		54.044		32.78		61.524		15.84		6.252		57.87	
Mittl. Ort	33.130		50.71		52.387		50.23		57.647		20.47		4.932		75.56	
sec δ, tg δ	1.104		−0.467		1.124		+0.513		1.620		−1.274		1.200		+0.663	
a, a'	+3.5		−14.1		+2.6		−14.1		+4.3		−13.7		+2.4		−13.3	
b, b'	+0.02		+ 0.71		−0.02		+ 0.71		+0.06		+ 0.73		−0.03		+ 0.75	

*) Bei Stern 563) lies Mai 10.

Tag	560) γ Triang. austr. AR.		Dekl.		564) β Librae AR.		Dekl.		565) 1 H. Ursae min. AR.		Dekl.		566) φ¹ Lupi AR.		Dekl.	
1940	15^h 13^m		−68° 27′		15^h 13^m		−9° 9′		15^h 13^m		+67° 34′		15^h 17^m		−36° 2′	
	s		"		s		"		s		"		s		"	
Jan. 1	16.18	69	16.62	66	46.149	296	40.23	158	53.24	52	16.98	268	59.216	353	29.59	52
11	16.87	73	15.96	17	46.445	311	41.81	158	53.76	59	14.30	214	59.569	371	30.11	78
21	17.60	75	15.79	32	46.756	315	43.39	154	54.35	62	12.16	154	59.940	377	30.89	101
31	18.35	75	16.11	79	47.071	312	44.93	144	54.97	64	10.62	89	60.317	374	31.90	120
Febr. 10	19.10	73	16.90	123	47.383	302	46.37	129	55.61	63	9.73	20	60.691	362	33.10	135
20	19.83	70	18.13	161	47.685	286	47.66	110	56.24	61	9.53	48	61.053	345	34.45	144
März 1	20.53	65	19.74	197	47.971	264	48.76	89	56.85	57	10.01	113	61.398	322	35.89	151
11	21.18	60	21.71	225	48.235	241	49.65	66	57.42	50	11.14	172	61.720	296	37.40	153
21	21.78	54	23.96	249	48.476	215	50.31	44	57.92	43	12.86	224	62.016	266	38.93	153
31	22.32	46	26.45	267	48.691	189	50.75	23	58.35	34	15.10	265	62.282	235	40.46	150
Apr. 10	22.78	39	29.12	280	48.880	160	50.98	4	58.69	25	17.75	296	62.517	202	41.96	145
20	23.17	31	31.92	286	49.040	133	51.02	13	58.94	16	20.71	315	62.719	168	43.41	138
30	23.48	22	34.78	287	49.173	104	50.89	27	59.10	6	23.86	324	62.887	134	44.79	131
Mai 10	$_{10}$23.70	14	37.65	281	$_{10}$49.277	75	50.62	37	$_{10}$59.16	4	27.10	321	$_{11}$63.021	97	46.10	121
19	23.84	5	40.46	271	49.352	46	50.25	45	59.12	12	30.31	307	63.118	61	47.31	111
29	23.89	4	43.17	253	49.398	16	49.80	50	59.00	21	33.38	284	63.179	22	48.42	97
Juni 8	23.85	13	45.70	229	49.414	14	49.30	54	58.79	29	36.22	254	63.201	15	49.39	83
18	23.72	21	47.99	200	49.400	43	48.76	56	58.50	35	38.76	217	63.186	53	50.22	66
28	23.51	29	49.99	166	49.357	70	48.20	56	58.15	42	40.93	173	63.133	89	50.88	48
Juli 8	23.22	37	51.65	127	49.287	97	47.64	56	57.73	47	42.66	125	63.044	122	51.36	27
18	22.85	42	52.92	83	49.190	119	47.08	54	57.26	50	43.91	75	62.922	151	51.63	6
28	22.43	46	53.75	37	49.071	138	46.54	52	56.76	53	44.66	24	62.771	175	51.69	16
Aug. 7	21.97	49	54.12	12	48.933	151	46.02	48	56.23	55	44.90	29	62.596	191	51.53	39
17	21.48	50	54.00	60	48.782	158	45.54	44	55.68	54	44.61	82	62.405	200	51.14	61
27	20.98	48	53.40	107	48.624	157	45.10	37	55.14	53	43.79	133	62.205	199	50.53	81
Sept. 6	20.50	45	52.33	151	48.467	148	44.73	30	54.61	50	42.46	181	62.006	186	49.72	98
16	20.05	40	50.82	191	48.319	130	44.43	19	54.11	45	40.65	227	61.820	163	48.74	112
26	19.65	32	48.91	223	48.189	102	44.24	7	53.66	40	38.38	269	61.657	130	47.62	122
Okt. 6	19.33	22	46.68	247	48.087	68	44.17	9	53.26	32	35.69	305	61.527	87	46.40	124
16	19.11	11	44.21	262	48.019	26	44.26	27	52.94	24	32.64	336	61.440	35	45.16	122
26	19.00	0	41.59	267	47.993	21	44.53	47	52.70	14	29.28	360	61.405	22	43.94	113
Nov. 5	19.00	14	38.92	260	48.014	71	45.00	68	52.56	3	25.68	375	61.427	83	42.81	98
15	19.14	26	36.32	244	48.085	122	45.68	90	52.53	7	21.93	381	61.510	144	41.83	77
25	19.40	38	33.88	217	48.207	170	46.58	111	52.60	18	18.12	377	61.654	202	41.06	52
Dez. 5	19.78	48	31.71	183	48.377	215	47.69	130	52.78	30	14.35	362	61.856	255	40.54	24
15	20.26	58	29.88	141	48.592	252	48.99	144	53.08	39	10.73	335	62.111	300	40.30	7
25	20.84	65	28.47	95	48.844	281	50.43	155	53.47	48	7.38	298	62.411	335	40.37	35
35	21.49		27.52		49.125		51.98		53.95		4.40		62.746		40.72	
Mittl. Ort	16.64		35.34		46.447		45.92		56.36		27.53		59.422		42.30	
sec δ, tg δ	2.724		−2.534		1.013		−0.161		2.621		+2.423		1.237		−0.728	
a, *a′*	+5.6		−13.3		+3.2		−13.3		+0.6		−13.3		+3.8		−13.0	
b, *b′*	+0.11		+ 0.75		+0.01		+ 0.75		−0.11		+ 0.75		+0.03		+ 0.76	

Scheinbare Sternörter 1940

Tag	569) γ Ursae min. AR.	Diff.	Dekl.	Diff.	568) μ Bootis *pr* AR.	Diff.	Dekl.	Diff.	571) ι Draconis AR.	Diff.	Dekl.	Diff.	572) β Coron. bor. AR.	Diff.	Dekl.	Diff.
1940	$15^h\ 20^m$		$+72°\ 2'$		$15^h\ 22^m$		$+37°\ 34'$		$15^h\ 23^m$		$+59°\ 10'$		$15^h\ 25^m$		$+29°\ 18'$	
	s		"		s		"		s		"		s		"	
Jan. 1	44.23	60	40.87	268	12.270	308	66.29	272	33.220	406	23.48	281	20.349	292	37.81	262
11	44.83	68	38.19	215	12.578	334	63.57	233	33.626	451	20.67	232	20.641	314	35.19	229
21	45.51	74	36.04	154	12.912	348	61.24	187	34.077	481	18.35	175	20.955	326	32.90	189
31	46.25	77	34.50	89	13.260	352	59.37	134	34.558	494	16.60	111	21.281	329	31.01	142
Febr. 10	47.02	77	33.61	21	13.612	346	58.03	77	35.052	491	15.49	45	21.610	323	29.59	90
20	47.79	74	33.40	48	13.958	331	57.26	17	35.543	474	15.04	22	21.933	308	28.69	36
März 1	48.53	69	33.88	113	14.289	307	57.09	41	36.017	442	15.26	88	22.241	288	28.33	17
11	49.22	63	35.01	172	14.596	279	57.50	96	36.459	398	16.14	149	22.529	262	28.50	69
21	49.85	53	36.73	224	14.875	246	58.46	145	36.857	346	17.63	202	22.791	232	29.19	116
31	50.38	42	38.97	267	15.121	208	59.91	188	37.203	286	19.65	246	23.023	200	30.35	156
Apr. 10	50.80	32	41.64	298	15.329	170	61.79	222	37.489	221	22.11	280	23.223	167	31.91	189
20	51.12	19	44.62	318	15.499	129	64.01	247	37.710	153	24.91	304	23.390	131	33.80	215
30	51.31	7	47.80	327	15.628	89	66.48	262	37.863	84	27.95	317	23.521	95	35.95	230
Mai 10	12 51.38	4	51.07	325	12 15.717	49	69.10	267	13 37.947	16	31.12	317	13 23.616	60	38.25	238
19	51.34	17	54.32	311	15.766	9	71.77	264	37.963	50	34.29	309	23.676	24	40.63	238
29	51.17	27	57.43	289	15.775	31	74.41	253	37.913	114	37.38	290	23.700	11	43.01	229
Juni 8	50.90	36	60.32	258	15.744	67	76.94	234	37.799	173	40.28	264	23.689	45	45.30	214
18	50.54	46	62.90	221	15.677	103	79.28	209	37.626	226	42.92	230	23.644	77	47.44	194
28	50.08	54	65.11	178	15.574	135	81.37	178	37.400	275	45.22	190	23.567	108	49.38	168
Juli 8	49.54	59	66.89	131	15.439	164	83.15	144	37.125	315	47.12	146	23.459	136	51.06	138
18	48.95	65	68.20	80	15.275	189	84.59	105	36.810	349	48.58	99	23.323	160	52.44	106
28	48.30	67	69.00	28	15.086	209	85.64	65	36.461	374	49.57	48	23.163	180	53.50	70
Aug. 7	47.63	70	69.28	25	14.877	221	86.29	23	36.087	388	50.05	2	22.983	193	54.20	34
17	46.93	70	69.03	78	14.656	228	86.52	20	35.699	393	50.03	54	22.790	201	54.54	4
27	46.23	67	68.25	129	14.428	226	86.32	63	35.306	387	49.49	104	22.589	200	54.50	43
Sept. 6	45.56	65	66.96	178	14.202	216	85.69	105	34.919	369	48.45	154	22.389	191	54.07	81
16	44.91	59	65.18	224	13.986	196	84.64	147	34.550	338	46.91	200	22.198	174	53.26	118
26	44.32	52	62.94	266	13.790	167	83.17	187	34.212	296	44.91	243	22.024	147	52.08	156
Okt. 6	43.80	44	60.28	303	13.623	129	81.30	223	33.916	241	42.48	282	21.877	113	50.52	190
16	43.36	33	57.25	334	13.494	84	79.07	256	33.675	177	39.66	316	21.764	70	48.62	222
26	43.03	22	53.91	357	13.410	31	76.51	285	33.498	103	36.50	343	21.694	21	46.40	250
Nov. 5	42.81	9	50.34	373	13.379	26	73.66	308	33.395	23	33.07	362	21.673	31	43.90	274
15	42.72	4	46.61	380	13.405	84	70.58	323	33.372	62	29.45	373	21.704	85	41.16	291
25	42.76	18	42.81	376	13.489	142	67.35	330	33.434	147	25.72	373	21.789	140	38.25	302
Dez. 5	42.94	31	39.05	361	13.631	197	64.05	328	33.581	229	21.99	364	21.929	190	35.23	303
15	43.25	44	35.44	334	13.828	246	60.77	315	33.810	305	18.35	341	22.119	235	32.20	296
25	43.69	55	32.10	298	14.074	288	57.62	293	34.115	372	14.94	309	22.354	272	29.24	279
35	44.24		29.12		14.362		54.69		34.487		11.85		22.626		26.45	
Mittl. Ort	48.32		51.12		13.336		71.86		35.408		32.35		21.212		41.45	
sec δ, tg δ	3.244		+3.086		1.262		+0.770		1.952		+1.676		1.147		+0.562	
a, *a'*	−0.1		−12.8		+2.3		−12.7		+1.3		−12.6		+2.5		−12.5	
b, *b'*	−0.13		+ 0.77		−0.03		+ 0.77		−0.07		+ 0.78		−0.02		+ 0.78	

Tag		573) ν^1 Bootis AR.		573) ν^1 Bootis Dekl.		575) γ Lupi *m* AR.		575) γ Lupi *m* Dekl.	
1940		$15^h\,28^m$		$+41^\circ\,1'$		$15^h\,31^m$		$-40^\circ\,57'$	
		s		"		s		"	
Jan.	1	45.129	311	66.48	280	7.707	365	45.80	19
	11	45.440	341	63.68	239	8.072	387	45.99	48
	21	45.781	357	61.29	192	8.459	398	46.47	76
	31	46.138	364	59.37	137	8.857	397	47.23	99
Febr.	10	46.502	360	58.00	77	9.254	389	48.22	119
	20	46.862	346	57.23	16	9.643	373	49.41	134
März	1	47.208	323	57.07	44	10.016	351	50.75	146
	11	47.531	295	57.51	101	10.367	325	52.21	154
	21	47.826	260	58.52	152	10.692	296	53.75	159
	31	48.086	222	60.04	196	10.988	264	55.34	161
Apr.	10	48.308	182	62.00	232	11.252	231	56.95	160
	20	48.490	139	64.32	258	11.483	195	58.55	158
	30	48.629	96	66.90	273	11.678	158	60.13	153
Mai	10	48.725	53	69.63	280	11.836	119	61.66	146
	19	^{14}48.778	10	72.43	277	^{15}11.955	79	63.12	136
	29	48.788	31	75.20	265	12.034	37	64.48	125
Juni	8	48.757	71	77.85	245	12.071	5	65.73	110
	18	48.686	110	80.30	220	12.066	48	66.83	94
	28	48.576	144	82.50	188	12.018	88	67.77	73
Juli	8	48.432	175	84.38	151	11.930	125	68.50	52
	18	48.257	202	85.89	112	11.805	160	69.02	28
	28	48.055	223	87.01	70	11.645	187	69.30	2
Aug.	7	47.832	238	87.71	26	11.458	207	69.32	25
	17	47.594	245	87.97	19	11.251	219	69.07	50
	27	47.349	245	87.78	64	11.032	219	68.57	76
Sept.	6	47.104	234	87.14	109	10.813	210	67.81	99
	16	46.870	214	86.05	151	10.603	187	66.82	118
	26	46.656	185	84.54	193	10.416	153	65.64	133
Okt.	6	46.471	147	82.61	230	10.263	108	64.31	141
	16	46.324	100	80.31	265	10.155	55	62.90	144
	26	46.224	47	77.66	294	10.100	5	61.46	140
Nov.	5	46.177	12	74.72	318	10.105	70	60.06	128
	15	46.189	73	71.54	333	10.175	136	58.78	110
	25	46.262	134	68.21	340	10.311	198	57.68	87
Dez.	5	46.396	192	64.81	338	10.509	255	56.81	60
	15	46.588	244	61.43	325	10.764	305	56.21	30
	25	46.832	289	58.18	301	11.069	345	55.91	1
	35	47.121		55.17		11.414		55.92	
Mittl. Ort		46.337		72.23		8.006		59.58	
sec δ, tg δ		1.326		+0.870		1.324		−0.868	
a, a'		+2.2		−12.3		+4.0		−12.1	
b, b'		−0.04		+ 0.79		+0.04		+ 0.80	

Tag		578) α Coron. bor. AR.		578) α Coron. bor. Dekl.		577) γ Librae AR.		577) γ Librae Dekl.	
1940		$15^h\,32^m$		$+26^\circ\,54'$		$15^h\,32^m$		$-14^\circ\,35'$	
		s		"		s		"	
Jan.	1	7.912	284	53.34	260	9.561	293	19.42	128
	11	8.196	308	50.74	230	9.854	311	20.70	136
	21	8.504	320	48.44	192	10.165	319	22.06	136
	31	8.824	324	46.52	147	10.484	318	23.42	132
Febr.	10	9.148	318	45.05	97	10.802	311	24.74	124
	20	9.466	306	44.08	46	11.113	298	25.98	111
März	1	9.772	287	43.62	7	11.411	280	27.09	95
	11	10.059	262	43.69	58	11.691	258	28.04	78
	21	10.321	235	44.27	104	11.949	234	28.82	60
	31	10.556	205	45.31	144	12.183	209	29.42	43
Apr.	10	10.761	172	46.75	178	12.392	183	29.85	27
	20	10.933	138	48.53	204	12.575	155	30.12	13
	30	11.071	104	50.57	220	12.730	126	30.25	1
Mai	10	11.175	70	52.77	229	12.856	97	30.26	9
	19	^{15}11.245	34	55.06	230	^{15}12.953	66	30.17	18
	29	11.279	0	57.36	224	13.019	35	29.99	23
Juni	8	11.279	34	59.60	210	13.054	3	29.76	28
	18	11.245	67	61.70	192	13.057	29	29.48	32
	28	11.178	98	63.62	167	13.028	59	29.16	36
Juli	8	11.080	126	65.29	140	12.969	89	28.80	39
	18	10.954	151	66.69	109	12.880	115	28.41	40
	28	10.803	172	67.78	75	12.765	138	28.01	43
Aug.	7	10.631	186	68.53	40	12.627	153	27.58	44
	17	10.445	195	68.93	5	12.474	164	27.14	44
	27	10.250	196	68.98	33	12.310	166	26.70	44
Sept.	6	10.054	189	68.65	70	12.144	159	26.26	42
	16	9.865	172	67.95	107	11.985	143	25.84	36
	26	9.693	147	66.88	143	11.842	117	25.48	29
Okt.	6	9.546	114	65.45	177	11.725	84	25.19	18
	16	9.432	73	63.68	209	11.641	42	25.01	5
	26	9.359	25	61.59	237	11.599	5	24.96	12
Nov.	5	9.334	27	59.22	262	11.604	56	25.08	31
	15	9.361	80	56.60	281	11.660	108	25.39	51
	25	9.441	133	53.79	292	11.768	159	25.90	73
Dez.	5	9.574	184	50.87	296	11.927	205	26.63	92
	15	9.758	228	47.91	290	12.132	244	27.55	110
	25	9.986	265	45.01	276	12.376	277	28.65	124
	35	10.251		42.25		12.653		29.89	
Mittl. Ort		8.751		56.03		9.912		26.97	
sec δ, tg δ		1.121		+0.508		1.033		−0.260	
a, a'		+2.5		−12.1		+3.4		−12.1	
b, b'		−0.02		+ 0.80		+0.01		+ 0.80	

Scheinbare Sternörter 1940

Tag	582) α Serpentis AR.		582) α Serpentis Dekl.		583) β Serpentis AR.		583) β Serpentis Dekl.		584) ϰ Serpentis AR.		584) ϰ Serpentis Dekl.		590) ζ Ursae min. AR.		590) ζ Ursae min. Dekl.	
1940	$15^h\ 41^m$		+6° 36′		$15^h\ 43^m$		+15° 36′		$15^h\ 46^m$		+18° 19′		$15^h\ 45^m$		+77° 58′	
Jan. 1	18.045	271	49.83	205	24.302	270	30.68	234	1.484	268	32.57	242	62.61	76	39.65	282
11	18.316	291	47.78	193	24.572	291	28.34	214	1.752	291	30.15	220	63.37	89	36.83	234
21	18.607	301	45.85	172	24.863	303	26.20	186	2.043	304	27.95	190	64.26	101	34.49	177
31	18.908	304	44.13	147	25.166	307	24.34	151	2.347	309	26.05	153	65.27	107	32.72	113
Febr. 10	19.212	299	42.66	116	25.473	304	22.83	112	2.656	305	24.52	111	66.34	110	31.59	46
20	19.511	288	41.50	81	25.777	293	21.71	69	2.961	296	23.41	66	67.44	109	31.13	22
März 1	19.799	272	40.69	44	26.070	276	21.02	24	3.257	280	22.75	19	68.53	103	31.35	88
11	20.071	251	40.25	8	26.346	256	20.78	19	3.537	259	22.56	26	69.56	96	32.23	149
21	20.322	229	40.17	26	26.602	232	20.97	60	3.796	235	22.82	69	70.52	84	33.72	205
31	20.551	204	40.43	58	26.834	207	21.57	96	4.031	210	23.51	107	71.36	69	35.77	251
Apr. 10	20.755	177	41.01	84	27.041	178	22.53	127	4.241	181	24.58	139	72.05	54	38.28	286
20	20.932	150	41.85	107	27.219	149	23.80	152	4.422	151	25.97	165	72.59	36	41.14	311
30	21.082	121	42.92	122	27.368	119	25.32	169	4.573	121	27.62	182	72.95	18	44.25	324
Mai 10	21.203	92	44.14	134	27.487	89	27.01	180	4.694	89	29.44	194	73.13	0	47.49	327
19	17 21.295	61	45.48	139	18 27.576	56	28.81	185	19 4.783	56	31.38	198	19 73.13	19	50.76	319
29	21.356	30	46.87	139	27.632	24	30.66	182	4.839	23	33.36	195	72.94	35	53.95	301
Juni 8	21.386	1	48.26	135	27.656	8	32.48	174	4.862	10	35.31	186	72.59	51	56.96	274
18	21.385	31	49.61	127	27.648	40	34.22	162	4.852	42	37.17	173	72.08	66	59.70	241
28	21.354	62	50.88	116	27.608	71	35.84	146	4.810	73	38.90	155	71.42	78	62.11	200
Juli 8	21.292	90	52.04	103	27.537	100	37.30	125	4.737	103	40.45	133	70.64	89	64.11	156
18	21.202	116	53.07	86	27.437	126	38.55	103	4.634	129	41.78	108	69.75	97	65.67	107
28	21.086	138	53.93	70	27.311	147	39.58	78	4.505	152	42.86	81	68.78	104	66.74	56
Aug. 7	20.948	154	54.63	51	27.164	164	40.36	52	4.353	169	43.67	53	67.74	107	67.30	5
17	20.794	165	55.14	30	27.000	175	40.88	24	4.184	179	44.20	23	66.67	109	67.35	48
27	20.629	168	55.44	10	26.825	179	41.12	5	4.005	183	44.43	8	65.58	108	66.87	100
Sept. 6	20.461	163	55.54	12	26.646	173	41.07	35	3.822	179	44.35	40	64.50	104	65.87	150
16	20.298	149	55.42	36	26.473	160	40.72	64	3.643	166	43.95	72	63.46	98	64.37	196
26	20.149	127	55.06	59	26.313	137	40.08	94	3.477	143	43.23	103	62.48	89	62.41	241
Okt. 6	20.022	96	54.47	84	26.176	106	39.14	123	3.334	112	42.20	135	61.59	78	60.00	280
16	19.926	58	53.63	108	26.070	68	37.91	153	3.222	74	40.85	164	60.81	63	57.20	314
26	19.868	13	52.55	132	26.002	24	36.38	180	3.148	29	39.21	192	60.18	48	54.06	341
Nov. 5	19.855	35	51.23	156	25.978	26	34.58	203	3.119	20	37.29	217	59.70	30	50.65	361
15	19.890	84	49.67	176	26.004	76	32.55	224	3.139	71	35.12	237	59.40	11	47.04	372
25	19.974	134	47.91	193	26.080	126	30.31	240	3.210	122	32.75	252	59.29	9	43.32	372
Dez. 5	20.108	180	45.98	206	26.206	174	27.91	249	3.332	170	30.23	261	59.38	29	39.60	363
15	20.288	220	43.92	211	26.380	216	25.42	251	3.502	213	27.62	262	59.67	49	35.97	342
25	20.508	253	41.81	211	26.596	251	22.91	243	3.715	250	25.00	253	60.16	66	32.55	310
35	20.761		39.70		26.847		20.48		3.965		22.47		60.82		29.45	
Mittl. Ort	18.606		47.33		24.986		30.20		2.219		32.57		69.31		47.76	
sec δ, tg δ	1.007		+0.116		1.038		+0.279		1.053		+0.331		4.802		+4.697	
a, *a′*	+2.9		−11.4		+2.8		−11.3		+2.7		−11.1		−2.2		−11.1	
b, *b′*	0.00		+ 0.82		−0.01		+ 0.83		−0.01		+ 0.83		−0.17		+ 0.83	

Tag	585) μ Serpentis AR.	Δ	585) μ Serpentis Dekl.	Δ	588) ε Serpentis AR.	Δ	588) ε Serpentis Dekl.	Δ
1940	$15^h\ 46^m$		$-3°\ 14'$		$15^h\ 47^m$		$+4°\ 39'$	
	s		"		s		"	
Jan. 1	28.656	273	47.59	168	48.778	267	28.62	198
11	28.929	291	49.27	164	49.045	288	26.64	186
21	29.220	303	50.91	154	49.333	299	24.78	170
31	29.523	305	52.45	139	49.632	303	23.08	145
Febr. 10	29.828	301	53.84	117	49.935	299	21.63	116
20	30.129	290	55.01	93	50.234	289	20.47	84
März 1	30.419	275	55.94	67	50.523	273	19.63	49
11	30.694	255	56.61	38	50.796	255	19.14	14
21	30.949	234	56.99	11	51.051	233	19.00	19
31	31.183	211	57.10	14	51.284	209	19.19	49
Apr. 10	31.394	185	56.96	35	51.493	183	19.68	76
20	31.579	159	56.61	55	51.676	156	20.44	97
30	31.738	131	56.06	69	51.832	129	21.41	113
Mai 10	31.869	103	55.37	79	51.961	99	22.54	125
19*)	[19] 31.972	72	54.58	86	[19] 52.060	68	23.79	130
29	32.044	42	53.72	89	52.128	38	25.09	131
Juni 8	32.086	10	52.83	89	52.166	6	26.40	128
18	32.096	22	51.94	86	52.172	25	27.68	122
28	32.074	52	51.08	81	52.147	56	28.90	111
Juli 8	32.022	82	50.27	75	52.091	86	30.01	99
18	31.940	109	49.52	67	52.005	112	31.00	85
28	31.831	132	48.85	58	51.893	134	31.85	69
Aug. 7	31.699	150	48.27	48	51.759	153	32.54	52
17	31.549	162	47.79	37	51.606	164	33.06	34
27	31.387	166	47.42	25	51.442	169	33.40	14
Sept. 6	31.221	162	47.17	12	51.273	164	33.54	6
16	31.059	148	47.05	2	51.109	152	33.48	27
26	30.911	127	47.07	19	50.957	130	33.21	50
Okt. 6	30.784	96	47.26	36	50.827	100	32.71	73
16	30.688	57	47.62	56	50.727	62	31.98	96
26	30.631	12	48.18	77	50.665	18	31.02	120
Nov. 5	30.619	35	48.95	97	50.647	30	29.82	143
15	30.654	86	49.92	118	50.677	79	28.39	164
25	30.740	135	51.10	136	50.756	129	26.75	181
Dez. 5	30.875	181	52.46	152	50.885	175	24.94	194
15	31.056	222	53.98	163	51.060	215	23.00	201
25	31.278	254	55.61	169	51.275	250	20.99	202
35	31.532		57.30		51.525		18.97	
Mittl. Ort	29.145		52.66		49.343		25.39	
sec δ, tg δ	1.002		−0.057		1.003		+0.081	
a, *a'*	+3.1		−11.0		+3.0		−10.9	
b, *b'*	0.00		+ 0.84		0.00		+ 0.84	

Tag	589) β Triang. austr. AR.	Δ	589) β Triang. austr. Dekl.	Δ	593) ε Coronae bor. AR.	Δ	593) ε Coronae bor. Dekl.	Δ
1940	$15^h\ 49^m$		$-63°\ 14'$		$15^h\ 55^m$		$+27°\ 2'$	
	s		"		s		"	
Jan. 1	49.34	54	33.78	93	5.158	266	60.46	267
11	49.88	58	32.85	50	5.424	294	57.79	239
21	50.46	62	32.35	7	5.718	310	55.40	203
31	51.08	62	32.28	35	6.028	318	53.37	159
Febr. 10	51.70	62	32.63	74	6.346	319	51.78	111
20	52.32	61	33.37	111	6.665	310	50.67	58
März 1	52.93	58	34.48	145	6.975	295	50.09	5
11	53.51	54	35.93	173	7.270	275	50.04	47
21	54.05	50	37.66	197	7.545	250	50.51	95
31	54.55	46	39.63	218	7.795	224	51.46	138
Apr. 10	55.01	40	41.81	233	8.019	193	52.84	174
20	55.41	33	44.14	245	8.212	161	54.58	203
30	55.74	27	46.59	250	8.373	127	56.61	222
Mai 10	56.01	21	49.09	252	8.500	93	58.83	235
19*)	[19] 56.22	13	51.61	247	[21] 8.593	57	61.18	238
29	56.35	5	54.08	238	8.650	21	63.56	233
Juni 8	56.40	2	56.46	223	8.671	15	65.89	223
18	56.38	9	58.69	202	8.656	50	68.12	206
28	56.29	17	60.71	175	8.606	84	70.18	183
Juli 8	56.12	23	62.46	144	8.522	116	72.01	156
18	55.89	30	63.90	108	8.406	144	73.57	126
28	55.59	34	64.98	69	8.262	168	74.83	94
Aug. 7	55.25	38	65.67	26	8.094	187	75.77	58
17	54.87	40	65.93	19	7.907	200	76.35	21
27	54.47	41	65.74	63	7.707	204	76.56	15
Sept. 6	54.06	39	65.11	105	7.503	200	76.41	54
16	53.67	36	64.06	145	7.303	188	75.87	91
26	53.31	30	62.61	180	7.115	166	74.96	128
Okt. 6	53.01	24	60.81	209	6.949	135	73.68	164
16	52.77	16	58.72	228	6.814	96	72.04	198
26	52.61	6	56.44	238	6.718	50	70.06	228
Nov. 5	52.55	5	54.06	240	6.668	1	67.78	254
15	52.60	15	51.66	232	6.669	54	65.24	275
25	52.75	25	49.34	213	6.723	107	62.49	289
Dez. 5	53.00	34	47.21	188	6.830	159	59.60	296
15	53.34	43	45.33	155	6.989	205	56.64	294
25	53.77	50	43.78	117	7.194	246	53.70	281
35	54.27		42.61		7.440		50.89	
Mittl. Ort	50.12		51.05		6.084		61.74	
sec δ, tg δ	2.222		−1.984		1.123		+0.511	
a, *a'*	+5.3		−10.8		+2.5		−10.4	
b, *b'*	+0.07		+ 0.84		−0.02		+ 0.86	

*) Bei Stern 593) lies Mai 20.

Tag	594) δ Scorpii AR.		Dekl.		598) ϑ Draconis AR.		Dekl.		597) β Scorpii *pr* AR.		Dekl.		603) δ Ophiuchi AR.		Dekl.	
1940	$15^h\ 56^m$		$-22°\ 26'$		$16^h\ 0^m$		$+58°\ 43'$		$16^h\ 1^m$		$-19°\ 38'$		$16^h\ 11^m$		$-3°\ 32'$	
	s		"		s		"		s		"		s		"	
Jan. 1	46.408	292	59.14	80	43.258	349	24.32	308	56.155	283	24.68	91	11.307	257	22.79	160
11	46.700	313	59.94	94	43.607	404	21.24	265	56.438	305	25.59	100	11.564	279	24.39	157
21	47.013	326	60.88	102	44.011	445	18.59	213	56.743	318	26.59	107	11.843	294	25.96	148
31	47.339	330	61.90	106	44.456	471	16.46	154	57.061	323	27.66	108	12.137	300	27.44	132
Febr. 10	47.669	327	62.96	106	44.927	481	14.92	89	57.384	321	28.74	105	12.437	300	28.76	112
20	47.996	317	64.02	103	45.408	477	14.03	21	57.705	312	29.79	98	12.737	294	29.88	89
März 1	48.313	303	65.05	96	45.885	458	13.82	47	58.017	299	30.77	88	13.031	283	30.77	62
11	48.616	284	66.01	87	46.343	427	14.29	110	58.316	282	31.65	77	13.314	267	31.39	34
21	48.900	263	66.88	77	46.770	385	15.39	169	58.598	261	32.42	65	13.581	249	31.73	7
31	49.163	240	67.65	66	47.155	334	17.08	220	58.859	239	33.07	52	13.830	228	31.80	17
Apr. 10	49.403	214	68.31	57	47.489	277	19.28	262	59.098	215	33.59	40	14.058	205	31.63	40
20	49.617	188	68.88	47	47.766	214	21.90	293	59.313	188	33.99	29	14.263	181	31.23	59
30	49.805	158	69.35	38	47.980	149	24.83	314	59.501	161	34.28	20	14.444	154	30.64	73
Mai 10	49.963	128	69.73	31	48.129	81	27.97	324	59.662	130	34.48	13	14.598	126	29.91	84
20	50.091	96	70.04	24	48.210	13	31.21	323	59.792	99	34.61	6	14.724	96	29.07	90
29	[21] 50.187	61	70.28	19	[22] 48.223	54	34.44	312	[23] 59.891	65	34.67	2	[25] 14.820	64	28.17	93
Juni 8	50.248	26	70.47	12	48.169	117	37.56	293	59.956	30	34.69	4	14.884	31	27.24	92
18	50.274	10	70.59	7	48.052	178	40.49	265	59.986	5	34.65	7	14.915	2	26.32	89
28	50.264	45	70.66	1	47.874	234	43.14	231	59.981	40	34.58	12	14.913	36	25.43	84
Juli 8	50.219	79	70.67	7	47.640	283	45.45	191	59.941	74	34.46	16	14.877	68	24.59	77
18	50.140	110	70.60	13	47.357	327	47.36	147	59.867	106	34.30	21	14.809	99	23.82	68
28	50.030	137	70.47	21	47.030	361	48.83	99	59.761	133	34.09	25	14.710	125	23.14	59
Aug. 7	49.893	160	70.26	29	46.669	386	49.82	49	59.628	155	33.84	31	14.585	146	22.55	49
17	49.733	174	69.97	37	46.283	402	50.31	2	59.473	170	33.53	36	14.439	162	22.06	38
27	49.559	179	69.60	44	45.881	406	50.29	53	59.303	177	33.17	40	14.277	171	21.68	26
Sept. 6	49.380	177	69.16	50	45.475	397	49.76	104	59.126	175	32.77	43	14.106	170	21.42	13
16	49.203	164	68.66	54	45.078	376	48.72	154	58.951	164	32.34	43	13.936	161	21.29	1
26	49.039	140	68.12	54	44.702	343	47.18	201	58.787	141	31.91	43	13.775	141	21.30	16
Okt. 6	48.899	108	67.58	51	44.359	297	45.17	244	58.646	109	31.48	38	13.634	114	21.46	34
16	48.791	66	67.07	45	44.062	239	42.73	284	58.537	70	31.10	30	13.520	78	21.80	51
26	48.725	18	66.62	35	43.823	171	39.89	317	58.467	23	30.80	18	13.442	35	22.31	71
Nov. 5	48.707	34	66.27	21	43.652	94	36.72	344	58.444	28	30.62	5	13.407	12	23.02	91
15	48.741	89	66.06	3	43.558	12	33.28	363	58.472	81	30.57	13	13.419	62	23.93	110
25	48.830	142	66.03	15	43.546	73	29.65	371	58.553	134	30.70	31	13.481	111	25.03	128
Dez. 5	48.972	192	66.18	35	43.619	158	25.94	369	58.687	184	31.01	50	13.592	159	26.31	143
15	49.164	236	66.53	55	43.777	238	22.25	356	58.871	227	31.51	68	13.751	201	27.74	154
25	49.400	272	67.08	73	44.015	310	18.69	332	59.098	263	32.19	84	13.952	237	29.28	161
35	49.672		67.81		44.325		15.37		59.361		33.03		14.189		30.89	
Mittl. Ort	46.849		68.86		45.599		29.85		56.626		33.83		11.889		28.61	
sec δ, tg δ	1.082		−0.413		1.926		+1.646		1.062		−0.357		1.002		−0.062	
a, *a′*	+3.5		−10.3		+1.2		−10.0		+3.5		−9.9		+3.1		−9.2	
b, *b′*	+0.01		+ 0.86		−0.05		+ 0.87		+0.01		+0.87		0.00		+ 0.89	

Tag	606) 19 Ursae min. AR.		606) Dekl.		605) ε Ophiuchi AR.		605) Dekl.		604) γ^2 Normae AR.		604) Dekl.		608) τ Herculis AR.		608) Dekl.	
1940	$16^h\ 12^m$		+76° 1′		$16^h\ 15^m$		−4° 32′		$16^h\ 15^m$		−50° 0′		$16^h\ 17^m$		+46° 27′	
	s		″		s		″		s		″		s		″	
Jan. 1	24.40	58	40.46	306	8.016	255	45.49	154	19.727	379	22.28	65	54.483	277	16.73	311
11	24.98	72	37.40	263	8.271	278	47.03	151	20.106	414	21.63	34	54.760	318	13.62	276
21	25.70	82	34.77	210	8.549	293	48.54	143	20.520	438	21.29	2	55.078	350	10.86	230
31	26.52	90	32.67	150	8.842	300	49.97	129	20.958	450	21.27	28	55.428	370	8.56	177
Febr. 10	27.42	94	31.17	84	9.142	301	51.26	110	21.408	452	21.55	56	55.798	380	6.79	118
20	28.36	95	30.33	16	9.443	295	52.36	88	21.860	445	22.11	81	56.178	378	5.61	55
März 1	29.31	93	30.17	51	9.738	284	53.24	62	22.305	432	22.92	104	56.556	368	5.06	10
11	30.24	88	30.68	116	10.022	270	53.86	35	22.737	411	23.96	122	56.924	347	5.16	72
21	31.12	79	31.84	174	10.292	251	54.21	9	23.148	386	25.18	139	57.271	320	5.88	131
31	31.91	68	33.58	226	10.543	232	54.30	15	23.534	356	26.57	153	57.591	287	7.19	183
Apr. 10	32.59	56	35.84	268	10.775	210	54.15	37	23.890	322	28.10	162	57.878	248	9.02	227
20	33.15	42	38.52	300	10.985	185	53.78	55	24.212	284	29.72	171	58.126	205	11.29	261
30	33.57	26	41.52	320	11.170	158	53.23	69	24.496	243	31.43	176	58.331	159	13.90	286
Mai 10	33.83	11	44.72	329	11.328	131	52.54	80	24.739	197	33.19	178	58.490	112	16.76	301
20	25 33.94	5	48.01	328	26 11.459	100	51.74	86	26 24.936	148	34.97	176	27 58.602	62	19.77	306
29	33.89	20	51.29	317	11.559	69	50.88	88	25.084	98	36.73	172	58.664	13	22.83	301
Juni 8	33.69	34	54.46	297	11.628	35	50.00	89	25.182	44	38.45	162	58.677	36	25.84	287
18	33.35	48	57.43	268	11.663	2	49.11	85	25.226	11	40.07	151	58.641	84	28.71	266
28	32.87	60	60.11	233	11.665	33	48.26	81	25.215	65	41.58	134	58.557	130	31.37	237
Juli 8	32.27	71	62.44	192	11.632	65	47.45	74	25.150	117	42.92	112	58.427	171	33.74	204
18	31.56	79	64.36	146	11.567	96	46.71	66	25.033	165	44.04	87	58.256	210	35.78	165
28	30.77	86	65.82	98	11.471	123	46.05	58	24.868	207	44.91	60	58.046	242	37.43	123
Aug. 7	29.91	92	66.80	47	11.348	145	45.47	48	24.661	241	45.51	28	57.804	267	38.66	77
17	28.99	94	67.27	5	11.203	162	44.99	38	24.420	264	45.79	4	57.537	285	39.43	30
27	28.05	96	67.22	57	11.041	171	44.61	28	24.156	276	45.75	38	57.252	293	39.73	17
Sept. 6	27.09	93	66.65	108	10.870	171	44.33	15	23.880	274	45.37	70	56.959	292	39.56	66
16	26.16	89	65.57	158	10.699	162	44.18	2	23.606	258	44.67	101	56.667	279	38.90	113
26	25.27	84	63.99	205	10.537	143	44.16	12	23.348	228	43.66	128	56.388	257	37.77	160
Okt. 6	24.43	74	61.94	249	10.394	116	44.28	28	23.120	184	42.38	150	56.131	223	36.17	203
16	23.69	64	59.45	287	10.278	81	44.56	46	22.936	129	40.88	167	55.908	180	34.14	244
26	23.05	50	56.58	320	10.197	38	45.02	64	22.807	63	39.21	175	55.728	127	31.70	281
Nov. 5	22.55	35	53.38	346	10.159	9	45.66	84	22.744	10	37.46	177	55.601	68	28.89	310
15	22.20	19	49.92	364	10.168	59	46.50	103	22.754	85	35.69	170	55.533	4	25.79	333
25	22.01	2	46.28	372	10.227	109	47.53	120	22.839	159	33.99	157	55.529	62	22.46	348
Dez. 5	21.99	16	42.56	369	10.336	156	48.73	135	22.998	230	32.42	136	55.591	127	18.98	353
15	22.15	33	38.87	356	10.492	198	50.08	147	23.228	294	31.06	112	55.718	190	15.45	347
25	22.48	49	35.31	330	10.690	235	51.55	155	23.522	348	29.94	82	55.908	246	11.98	329
35	22.97		32.01		10.925		53.10		23.870		29.12		56.154		8.69	
Mittl. Ort	30.32		45.92		8.606		51.61		20.429		36.99		56.092		19.43	
sec δ, tg δ	4.142		+4.020		1.003		−0.080		1.556		−1.192		1.452		+1.052	
a, *a*′	−1.7		−9.1		+3.2		−8.9		+4.5		−8.8		+1.8		−8.6	
b, *b*′	−0.12		+0.89		0.00		+0.90		+0.04		+0.90		−0.03		+0.90	

Scheinbare Sternörter 1940

Tag	609) γ Herculis AR.		609) γ Herculis Dekl.		615) η Draconis AR.		615) η Draconis Dekl.	
1940	$16^h 19^m$		$+19° 17'$		$16^h 23^m$		$+61° 38'$	
	s		″		s		″	
Jan. 1	15.410	244	35.66	248	7.64	34	54.92	323
11	15.654	271	33.18	228	7.98	40	51.69	284
21	15.925	290	30.90	200	8.38	45	48.85	234
31	16.215	300	28.90	164	8.83	49	46.51	177
Febr. 10	16.515	304	27.26	123	9.32	51	44.74	113
20	16.819	300	26.03	76	9.83	52	43.61	45
März 1	17.119	290	25.27	29	10.35	50	43.16	23
11	17.409	275	24.98	18	10.85	48	43.39	89
21	17.684	256	25.16	63	11.33	44	44.28	150
31	17.940	234	25.79	104	11.77	39	45.78	205
Apr. 10	18.174	209	26.83	140	12.16	34	47.83	250
20	18.383	181	28.23	169	12.50	26	50.33	287
30	18.564	152	29.92	190	12.76	20	53.20	312
Mai 10	18.716	121	31.82	204	12.96	12	56.32	326
20	18.837	88	33.86	211	13.08	5	59.58	330
	27				28			
29	18.925	53	35.97	212	13.13	3	62.88	323
Juni 8	18.978	18	38.09	204	13.10	10	66.11	308
18	18.996	18	40.13	192	13.00	17	69.19	284
28	18.978	53	42.05	176	12.83	23	72.03	253
Juli 8	18.925	86	43.81	154	12.60	30	74.56	215
18	18.839	117	45.35	129	12.30	35	76.71	172
28	18.722	144	46.64	103	11.95	39	78.43	126
Aug. 7	18.578	167	47.67	73	11.56	42	79.69	77
17	18.411	183	48.40	42	11.14	45	80.46	26
27	18.228	192	48.82	10	10.69	46	80.72	27
Sept. 6	18.036	192	48.92	22	10.23	45	80.45	78
16	17.844	184	48.70	55	9.78	44	79.67	129
26	17.660	167	48.15	89	9.34	41	78.38	178
Okt. 6	17.493	139	47.26	121	8.93	36	76.60	224
16	17.354	104	46.05	153	8.57	31	74.36	267
26	17.250	63	44.52	182	8.26	23	71.69	304
Nov. 5	17.187	15	42.70	210	8.03	16	68.65	334
15	17.172	36	40.60	232	7.87	7	65.31	357
25	17.208	87	38.28	249	7.80	2	61.74	370
Dez. 5	17.295	136	35.79	260	7.82	12	58.04	373
15	17.431	182	33.19	263	7.94	20	54.31	364
25	17.613	222	30.56	258	8.14	29	50.67	344
35	17.835		27.98		8.43		47.23	
Mittl. Ort	16.269		34.07		10.36		58.63	
sec δ, tg δ	1.059		+0.350		2.106		+1.853	
a, *a′*	+2.6		−8.5		+0.8		−8.2	
b, *b′*	−0.01		+0.91		−0.05		+0.91	

Tag	611) γ Apodis AR.		611) γ Apodis Dekl.		616) α Scorpii AR.		616) α Scorpii Dekl.	
1940	$16^h 24^m$		$-78° 45'$		$16^h 25^m$		$-26° 17'$	
	s		″		s		″	
Jan. 1	7.63	103	41.36	192	42.882	278	51.33	43
11	8.66	117	39.44	147	43.160	306	51.76	57
21	9.83	126	37.97	101	43.466	323	52.33	69
31	11.09	133	36.96	52	43.789	332	53.02	76
Febr. 10	12.42	137	36.44	2	44.121	335	53.78	80
20	13.79	136	36.42	45	44.456	330	54.58	80
März 1	15.15	134	36.87	90	44.786	320	55.38	79
11	16.49	128	37.77	132	45.106	306	56.17	75
21	17.77	121	39.09	172	45.412	289	56.92	69
31	18.98	111	40.81	205	45.701	269	57.61	63
Apr. 10	20.09	99	42.86	234	45.970	246	58.24	58
20	21.08	87	45.20	259	46.216	221	58.82	52
30	21.95	71	47.79	278	46.437	193	59.34	47
Mai 10	22.66	54	50.57	291	46.630	162	59.81	43
20	23.20	38	53.48	297	46.792	128	60.24	39
	28				29			
29	23.58	19	56.45	295	46.920	93	60.63	36
Juni 8	23.77	1	59.40	288	47.013	55	60.99	32
18	23.78	18	62.28	273	47.068	16	61.31	28
28	23.60	36	65.01	250	47.084	23	61.59	23
Juli 8	23.24	53	67.51	220	47.061	62	61.82	16
18	22.71	68	69.71	183	46.999	98	61.98	8
28	22.03	81	71.54	140	46.901	131	62.06	0
Aug. 7	21.22	91	72.94	93	46.770	157	62.06	11
17	20.31	98	73.87	42	46.613	178	61.95	21
27	19.33	102	74.29	13	46.435	189	61.74	31
Sept. 6	18.31	101	74.16	67	46.246	191	61.43	41
16	17.30	95	73.49	120	46.055	183	61.02	50
26	16.35	87	72.29	169	45.872	163	60.52	56
Okt. 6	15.48	73	70.60	212	45.709	133	59.96	59
16	14.75	56	68.48	248	45.576	95	59.37	58
26	14.19	37	66.00	276	45.481	47	58.79	54
Nov. 5	13.82	15	63.24	291	45.434	6	58.25	45
15	13.67	8	60.33	297	45.440	60	57.80	33
25	13.75	31	57.36	291	45.500	116	57.47	18
Dez. 5	14.06	53	54.45	274	45.616	168	57.29	0
15	14.59	74	51.71	248	45.784	215	57.29	17
25	15.33	92	49.23	214	45.999	256	57.46	35
35	16.25		47.09		46.255		57.81	
Mittl. Ort	10.82		58.83		43.457		61.84	
sec δ, tg δ	5.133		−5.035		1.116		−0.494	
a, *a′*	+9.2		−8.1		+3.7		−8.0	
b, *b′*	+0.14		+0.91		+0.01		+0.92	

Tag	618) β Herculis				619) A Draconis				621) σ Herculis				622) ζ Ophiuchi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$16^h\ 27^m$		+21° 36′		$16^h\ 28^m$		+68° 53′		$16^h\ 32^m$		+42° 33′		$16^h\ 33^m$		−10° 26′	
	s		"		s		"		s		"		s		"	
Jan. 1	37.395	237	70.42	257	1.54	39	49.12	324	8.510	252	34.36	311	50.478	246	42.04	119
11	37.632	266	67.85	236	1.93	48	45.88	284	8.762	293	31.25	280	50.724	273	43.23	121
21	37.898	287	65.49	206	2.41	56	43.04	234	9.055	324	28.45	238	50.997	290	44.44	118
31	38.185	300	63.43	170	2.97	61	40.70	177	9.379	345	26.07	189	51.287	300	45.62	110
Febr. 10	38.485	305	61.73	126	3.58	65	38.93	112	9.724	357	24.18	132	51.587	304	46.72	97
20	38.790	303	60.47	79	4.23	66	37.81	45	10.081	358	22.86	71	51.891	301	47.69	81
März 1	39.093	294	59.68	30	4.89	65	37.36	24	10.439	351	22.15	8	52.192	293	48.50	62
11	39.387	281	59.38	19	5.54	62	37.60	91	10.790	336	22.07	54	52.485	281	49.12	42
21	39.668	262	59.57	67	6.16	57	38.51	152	11.126	313	22.61	112	52.766	266	49.54	21
31	39.930	241	60.24	110	6.73	50	40.03	207	11.439	285	23.73	164	53.032	248	49.75	1
Apr. 10	40.171	217	61.34	147	7.23	43	42.10	253	11.724	251	25.37	210	53.280	228	49.76	17
20	40.388	190	62.81	177	7.66	34	44.63	290	11.975	214	27.47	246	53.508	205	49.59	31
30	40.578	159	64.58	201	8.00	24	47.53	315	12.189	173	29.93	274	53.713	180	49.28	43
Mai 10	40.737	128	66.59	216	8.24	14	50.68	330	12.362	130	32.67	291	53.893	153	48.85	51
20	40.865	94	68.75	223	8.38	4	53.98	333	12.492	84	35.58	298	54.046	122	48.34	57
29*)	[29] 40.959	58	70.98	223	[29] 8.42	6	57.31	327	[30] 12.576	38	38.56	297	[31] 54.168	89	47.77	60
Juni 8	41.017	23	73.21	217	8.36	16	60.58	312	12.614	9	41.53	287	54.257	56	47.17	60
18	41.040	14	75.38	205	8.20	25	63.70	287	12.605	55	44.40	268	54.313	20	46.57	58
28	41.026	50	77.43	187	7.95	34	66.57	255	12.550	99	47.08	243	54.333	17	45.99	56
Juli 8	40.976	85	79.30	166	7.61	41	69.12	218	12.451	142	49.51	213	54.316	52	45.43	52
18	40.891	117	80.96	139	7.20	49	71.30	174	12.309	180	51.64	176	54.264	85	44.91	48
28	40.774	146	82.35	111	6.71	54	73.04	128	12.129	214	53.40	137	54.179	116	44.43	43
Aug. 7	40.628	170	83.46	80	6.17	58	74.32	78	11.915	240	54.77	94	54.063	142	44.00	39
17	40.458	187	84.26	47	5.59	62	75.10	26	11.675	261	55.71	48	53.921	161	43.61	33
27	40.271	198	84.73	14	4.97	62	75.36	26	11.414	272	56.19	3	53.760	173	43.28	28
Sept. 6	40.073	199	84.87	21	4.35	62	75.10	78	11.142	273	56.22	44	53.587	177	43.00	22
16	39.874	192	84.66	56	3.73	61	74.32	130	10.869	265	55.78	91	53.410	170	42.78	14
26	39.682	176	84.10	90	3.12	56	73.02	179	10.604	247	54.87	137	53.240	154	42.64	6
Okt. 6	39.506	149	83.20	125	2.56	51	71.23	226	10.357	216	53.50	181	53.086	129	42.58	4
16	39.357	115	81.95	158	2.05	43	68.97	268	10.141	177	51.69	222	52.957	94	42.62	17
26	39.242	74	80.37	189	1.62	35	66.29	305	9.964	129	49.47	259	52.863	53	42.79	30
Nov. 5	39.168	26	78.48	216	1.27	25	63.24	335	9.835	74	46.88	291	52.810	6	43.09	47
15	39.142	24	76.32	240	1.02	14	59.89	358	9.761	15	43.97	317	52.804	45	43.56	63
25	39.166	76	73.92	258	0.88	2	56.31	372	9.746	47	40.80	334	52.849	95	44.19	79
Dez. 5	39.242	127	71.34	270	0.86	10	52.59	374	9.793	110	37.46	342	52.944	143	44.98	94
15	39.369	173	68.64	272	0.96	22	48.85	365	9.903	169	34.04	340	53.087	187	45.92	108
25	39.542	214	65.92	267	1.18	33	45.20	344	10.072	222	30.64	328	53.274	225	47.00	117
35	39.756		63.25		1.51		41.76		10.294		27.36		53.499		48.17	
Mittl. Ort	38.315		68.78		5.36		52.78		9.989		35.44		51.103		49.66	
sec δ, tg δ	1.076		+0.396		2.778		+2.591		1.358		+0.918		1.017		−0.184	
a, a′	+2.6		−7.9		−0.1		−7.8		+1.9		−7.5		+3.3		−7.4	
b, b′	−0.01		+0.92		−0.07		+0.92		−0.02		+0.93		0.00		+0.93	

*) Bei Stern 621) und 622) lies Mai 30.

Scheinbare Sternörter 1940

Tag	626) η Herculis AR.	626) η Herculis Dekl.	625) α Triang. austr. AR.	625) α Triang. austr. Dekl.
1940	16h 40m	+39° 1′	16h 42m	−68° 54′
Jan. 1	48.848 237	67.37 307	15.75 56	57.43 176
11	49.085 277	64.30 279	16.31 64	55.67 139
21	49.362 307	61.51 241	16.95 70	54.28 99
31	49.669 329	59.10 193	17.65 74	53.29 57
Febr. 10	49.998 340	57.17 139	18.39 76	52.72 15
20	50.338 343	55.78 81	19.15 77	52.57 26
März 1	50.681 338	54.97 20	19.92 75	52.83 65
11	51.019 325	54.77 41	20.67 74	53.48 101
21	51.344 306	55.18 98	21.41 70	54.49 135
31	51.650 281	56.16 151	22.11 65	55.84 166
Apr. 10	51.931 251	57.67 196	22.76 60	57.50 192
20	52.182 217	59.63 233	23.36 53	59.42 214
30	52.399 179	61.96 262	23.89 46	61.56 232
Mai 10	52.578 140	64.58 280	24.35 37	63.88 246
20	52.718 97	67.38 290	24.72 29	66.34 254
30	52.815 54	70.28 290	25.01 19	68.88 256
Juni 8	52.869 9	73.18 282	25.20 9	71.44 252
18	52.878 36	76.00 265	25.29 1	73.96 241
28	52.842 80	78.65 243	25.28 12	76.37 225
Juli 8	52.762 120	81.08 214	25.16 21	78.62 201
18	52.642 159	83.22 180	24.95 30	80.63 171
28	52.483 193	85.02 142	24.65 38	82.34 136
Aug. 7	52.290 221	86.44 102	24.27 45	83.70 95
17	52.069 241	87.46 59	23.82 49	84.65 50
27	51.828 255	88.05 14	23.33 53	85.15 3
Sept. 6	51.573 258	88.19 32	22.80 53	85.18 44
16	51.315 251	87.87 76	22.27 52	84.74 93
26	51.064 236	87.11 122	21.75 47	83.81 137
Okt. 6	50.828 208	85.89 165	21.28 40	82.44 177
16	50.620 171	84.24 205	20.88 32	80.67 211
26	50.449 126	82.19 243	20.56 22	78.56 237
Nov. 5	50.323 74	79.76 276	20.34 9	76.19 253
15	50.249 17	77.00 303	20.25 3	73.66 261
25	50.232 42	73.97 321	20.28 16	71.05 257
Dez. 5	50.274 100	70.76 332	20.44 28	68.48 244
15	50.374 157	67.44 332	20.72 40	66.04 223
25	50.531 209	64.12 321	21.12 51	63.81 195
35	50.740	60.91	21.63	61.86
Mittl. Ort	50.218	67.36	17.55	73.34
sec δ, tg δ	1.287	+0.811	2.781	−2.594
a, *a′*	+2.1	−6.8	+6.3	−6.7
b, *b′*	−0.02	+0.94	+0.06	+0.94

Tag	627) Grb 2377 Drac AR.	627) Grb 2377 Drac Dekl.	628) ε Scorpii AR.	628) ε Scorpii Dekl.
1940	16h 44m	+56° 53′	16h 46m	−34° 10′
Jan. 1	6.961 275	17.35 332	15.645 279	58.23 13
11	7.236 335	14.03 299	15.924 312	58.10 6
21	7.571 385	11.04 254	16.236 334	58.16 23
31	7.956 422	8.50 200	16.570 349	58.39 36
Febr. 10	8.378 445	6.50 140	16.919 355	58.75 49
20	8.823 455	5.10 74	17.274 355	59.24 57
März 1	9.278 452	4.36 7	17.629 348	59.81 64
11	9.730 436	4.29 60	17.977 337	60.45 69
21	10.166 408	4.89 123	18.314 323	61.14 72
31	10.574 371	6.12 180	18.637 303	61.86 74
Apr. 10	10.945 327	7.92 229	18.940 282	62.60 75
20	11.272 274	10.21 269	19.222 256	63.35 77
30	11.546 216	12.90 300	19.478 228	64.12 78
Mai 10	11.762 155	15.90 319	19.706 195	64.90 79
20	11.917 91	19.09 328	19.901 159	65.69 79
30	12.008 25	22.37 326	20.060 120	66.48 78
Juni 8	12.033 39	25.63 317	20.180 79	67.26 75
18	11.994 103	28.80 297	20.259 35	68.01 72
28	11.891 163	31.77 270	20.294 9	68.73 66
Juli 8	11.728 220	34.47 236	20.285 54	69.39 57
18	11.508 272	36.83 198	20.231 96	69.96 47
28	11.236 315	38.81 154	20.135 134	70.43 34
Aug. 7	10.921 351	40.35 107	20.001 166	70.77 19
17	10.570 377	41.42 59	19.835 192	70.96 2
27	10.193 393	42.01 7	19.643 208	70.98 16
Sept. 6	9.800 396	42.08 44	19.435 214	70.82 34
16	9.404 388	41.64 96	19.221 209	70.48 51
26	9.016 366	40.68 146	19.012 191	69.97 65
Okt. 6	8.650 331	39.22 193	18.821 162	69.32 78
16	8.319 284	37.29 239	18.659 122	68.54 85
26	8.035 225	34.90 278	18.537 75	67.69 89
Nov. 5	7.810 157	32.12 313	18.462 19	66.80 88
15	7.653 83	28.99 341	18.443 39	65.92 82
25	7.570 3	25.58 358	18.482 98	65.10 71
Dez. 5	7.567 79	22.00 367	18.580 156	64.39 57
15	7.646 157	18.33 365	18.736 208	63.82 40
25	7.803 233	14.68 350	18.944 253	63.42 21
35	8.036	11.18	19.197	63.21
Mittl. Ort	9.275	18.77	16.350	69.80
sec δ, tg δ	1.831	+1.533	1.209	−0.679
a, *a′*	+1.1	−6.5	+3.9	−6.3
b, *b′*	−0.03	+0.95	+0.01	+0.95

Tag	629) 49 Herculis				630) ζ^2 Scorpii				631) ζ Arae				633) $\varkappa$ Ophiuchi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$16^h\ 49^m$		$+15°\ 4'$		$16^h\ 50^m$		$-42°\ 15'$		$16^h\ 53^m$		$-55°\ 53'$		$16^h\ 54^m$		$+9°\ 27'$	
	s		"		s		"		s		"		s		"	
Jan. 1	19.942	218	28.57	233	20.511	304	25.10	58	37.621	377	37.14	130	48.747	215	65.76	208
11	20.160	249	26.24	218	20.815	340	24.52	36	37.998	426	35.84	101	48.962	244	63.68	198
21	20.409	270	24.06	195	21.155	367	24.16	13	38.424	463	34.83	69	49.206	267	61.70	179
31	20.679	286	22.11	165	21.522	384	24.03	8	38.887	489	34.14	38	49.473	281	59.91	153
Febr. 10	20.965	294	20.46	129	21.906	393	24.11	27	39.376	503	33.76	6	49.754	288	58.38	122
20	21.259	294	19.17	87	22.299	394	24.38	45	39.879	508	33.70	24	50.042	291	57.16	87
März 1	21.553	290	18.30	43	22.693	388	24.83	59	40.387	502	33.94	52	50.333	287	56.29	47
11	21.843	281	17.87	1	23.081	377	25.42	73	40.889	489	34.46	78	50.620	278	55.82	7
21	22.124	267	17.88	45	23.458	361	26.15	84	41.378	470	35.24	103	50.898	266	55.75	31
31	22.391	250	18.33	85	23.819	341	26.99	94	41.848	444	36.27	123	51.164	251	56.06	68
Apr. 10	22.641	229	19.18	120	24.160	316	27.93	102	42.292	411	37.50	143	51.415	231	56.74	100
20	22.870	206	20.38	149	24.476	289	28.95	109	42.703	373	38.93	160	51.646	210	57.74	126
30	23.076	180	21.87	173	24.765	257	30.04	115	43.076	330	40.53	174	51.856	185	59.00	148
Mai 10	23.256	151	23.60	189	25.022	220	31.19	120	43.406	281	42.27	183	52.041	157	60.48	163
20	23.407	119	25.49	198	25.242	180	32.39	122	43.687	226	44.10	191	52.198	127	62.11	172
30	4 23.526	85	27.47	200	4 25.422	136	33.61	123	5 43.913	166	46.01	194	5 52.325	94	63.83	174
Juni 8	23.611	50	29.47	197	25.558	89	34.84	121	44.079	104	47.95	192	52.419	59	65.57	172
18	23.661	13	31.44	188	25.647	39	36.05	116	44.183	38	49.87	185	52.478	23	67.29	165
28	23.674	24	33.32	174	25.686	10	37.21	108	44.221	28	51.72	174	52.501	14	68.94	153
Juli 8	23.650	60	35.06	156	25.676	60	38.29	96	44.193	94	53.46	157	52.487	50	70.47	138
18	23.590	94	36.62	136	25.616	107	39.25	81	44.099	156	55.03	135	52.437	84	71.85	120
28	23.496	126	37.98	111	25.509	151	40.06	62	43.943	211	56.38	109	52.353	117	73.05	100
Aug. 7	23.370	152	39.09	85	25.358	187	40.68	42	43.732	260	57.47	77	52.236	144	74.05	79
17	23.218	172	39.94	58	25.171	216	41.10	18	43.472	296	58.24	43	52.092	165	74.84	56
27	23.046	187	40.52	29	24.955	235	41.28	8	43.176	320	58.67	6	51.927	180	75.40	31
Sept. 6	22.859	192	40.81	0	24.720	241	41.20	34	42.856	330	58.73	32	51.747	186	75.71	6
16	22.667	189	40.81	31	24.479	236	40.86	58	42.526	322	58.41	70	51.561	184	75.77	19
26	22.478	175	40.50	61	24.243	217	40.28	81	42.204	299	57.71	105	51.377	171	75.58	46
Okt. 6	22.303	152	39.89	92	24.026	186	39.47	101	41.905	258	56.66	137	51.206	150	75.12	72
16	22.151	122	38.97	122	23.840	142	38.46	116	41.647	203	55.29	163	51.056	119	74.40	98
26	22.029	83	37.75	150	23.698	90	37.30	126	41.444	136	53.66	184	50.937	82	73.42	124
Nov. 5	21.946	38	36.25	178	23.608	29	36.04	130	41.308	58	51.82	196	50.855	38	72.18	148
15	21.908	10	34.47	201	23.579	35	34.74	129	41.250	25	49.86	200	50.817	10	70.70	171
25	21.918	60	32.46	220	23.614	101	33.45	120	41.275	109	47.86	197	50.827	59	68.99	189
Dez. 5	21.978	109	30.26	233	23.715	164	32.25	107	41.384	191	45.89	186	50.886	107	67.10	204
15	22.087	154	27.93	241	23.879	223	31.18	90	41.575	269	44.03	168	50.993	152	65.06	212
25	22.241	195	25.52	240	24.102	274	30.28	69	41.844	336	42.35	145	51.145	192	62.94	213
35	22.436		23.12		24.376		29.59		42.180		40.90		51.337		60.81	
Mittl. Ort	20.814		24.79		21.321		37.73		38.769		51.30		49.566		60.93	
sec δ, tg δ	1.036		+0.269		1.351		−0.909		1.784		−1.477		1.014		+0.167	
a, a'	+2.7		−6.1		+4.2		−6.0		+5.0		−5.7		+2.9		−5.6	
b, b'	−0.01		+0.95		+0.02		+0.95		+0.03		+0.96		0.00		+0.96	

Scheinbare Sternörter 1940

Tag	634) ε Herculis				637) η Ophiuchi *m*				639) ζ Draconis				640) α Herculis *pr*			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$16^h\ 57^m$		$+31°\ 0'$		$17^h\ 6^m$		$-15°\ 38'$		$17^h\ 8^m$		$+65°\ 47'$		$17^h\ 11^m$		$+14°\ 27'$	
	s		"		s		"		s		"		s		"	
Jan. 1	58.341	212	51.26	290	55.332	226	59.51	76	33.10	27	18.80	344	53.680	199	31.43	228
11	58.553	249	48.36	267	55.558	256	60.27	82	33.37	36	15.36	315	53.879	231	29.15	216
21	58.802	278	45.69	236	55.814	279	61.09	82	33.73	44	12.21	274	54.110	256	26.99	195
31	59.080	299	43.33	195	56.093	294	61.91	78	34.17	50	9.47	222	54.366	274	25.04	167
Febr. 10	59.379	312	41.38	147	56.387	302	62.69	71	34.67	55	7.25	164	54.640	286	23.37	133
20	59.691	317	39.91	95	56.689	306	63.40	61	35.22	57	5.61	98	54.926	290	22.04	92
März 1	60.008	314	38.96	38	56.995	303	64.01	48	35.79	58	4.63	30	55.216	290	21.12	49
11	60.322	306	38.58	18	57.298	296	64.49	32	36.37	57	4.33	37	55.506	285	20.63	5
21	60.628	293	38.76	73	57.594	286	64.81	18	36.94	55	4.70	103	55.791	274	20.58	39
31	60.921	273	39.49	123	57.880	273	64.99	3	37.49	50	5.73	164	56.065	261	20.97	79
Apr. 10	61.194	249	40.72	167	58.153	256	65.02	10	37.99	45	7.37	217	56.326	244	21.76	115
20	61.443	222	42.39	205	58.409	237	64.92	21	38.44	38	9.54	261	56.570	223	22.91	147
30	61.665	191	44.44	234	58.646	213	64.71	29	38.82	31	12.15	296	56.793	198	24.38	170
Mai 10	61.856	157	46.78	254	58.859	188	64.42	35	39.13	22	15.11	321	56.991	171	26.08	189
20	62.013	120	49.32	266	59.047	158	64.07	37	39.35	14	18.32	334	57.162	141	27.97	199
30	[6] 62.133	81	51.98	269	[8] 59.205	125	63.70	39	[8] 39.49	5	21.66	338	57.303	107	29.96	203
Juni 8*)	62.214	40	54.67	264	59.330	89	63.31	38	39.54	4	25.04	332	[9] 57.410	71	31.99	202
18	62.254	2	57.31	252	59.419	52	62.93	35	39.50	13	28.36	316	57.481	33	34.01	194
28	62.252	43	59.83	234	59.471	12	62.58	33	39.37	21	31.52	292	57.514	4	35.95	181
Juli 8	62.209	83	62.17	210	59.483	27	62.25	30	39.16	29	34.44	262	57.510	43	37.76	164
18	62.126	121	64.27	181	59.456	65	61.95	26	38.87	37	37.06	225	57.467	79	39.40	144
28	62.005	156	66.08	148	59.391	101	61.69	24	38.50	42	39.31	183	57.388	114	40.84	121
Aug. 7	61.849	185	67.56	112	59.290	132	61.45	22	38.08	48	41.14	137	57.274	143	42.05	96
17	61.664	207	68.68	74	59.158	157	61.23	21	37.60	52	42.51	88	57.131	167	43.01	69
27	61.457	224	69.42	34	59.001	174	61.02	20	37.08	54	43.39	37	56.964	184	43.70	40
Sept. 6	61.233	230	69.76	7	58.827	184	60.82	18	36.54	56	43.76	15	56.780	194	44.10	12
16	61.003	227	69.69	48	58.643	182	60.64	17	35.98	55	43.61	69	56.586	193	44.22	18
26	60.776	214	69.21	90	58.461	171	60.47	14	35.43	54	42.92	120	56.393	183	44.04	49
Okt. 6	60.562	192	68.31	130	58.290	150	60.33	10	34.89	49	41.72	170	56.210	165	43.55	79
16	60.370	160	67.01	169	58.140	119	60.23	4	34.40	44	40.02	218	56.045	136	42.76	109
26	60.210	119	65.32	206	58.021	80	60.19	5	33.96	38	37.84	262	55.909	100	41.67	137
Nov. 5	60.091	73	63.26	239	57.941	34	60.24	14	33.58	29	35.22	300	55.809	57	40.30	165
15	60.018	21	60.87	266	57.907	15	60.38	26	33.29	20	32.22	332	55.752	11	38.65	189
25	59.997	32	58.21	287	57.922	66	60.64	39	33.09	10	28.90	354	55.741	38	36.76	210
Dez. 5	60.029	87	55.34	301	57.988	115	61.03	52	32.99	0	25.36	368	55.779	86	34.66	224
15	60.116	139	52.33	306	58.103	161	61.55	64	32.99	11	21.68	369	55.865	133	32.42	233
25	60.255	185	49.27	301	58.264	203	62.19	74	33.10	21	17.99	359	55.998	175	30.09	235
35	60.440		46.26		58.467		62.93		33.31		14.40		56.173		27.74	
Mittl. Ort	59.513		49.11		56.053		68.19		36.44		18.36		54.587		26.58	
sec δ, tg δ	1.167		+0.601		1.039		−0.280		2.438		+2.224		1.033		+0.258	
a, *a'*	+2.3		−5.4		+3.4		−4.6		+0.2		−4.5		+2.7		−4.2	
b, *b'*	−0.01		+0.96		0.00		+0.97		−0.03		+0.98		0.00		+0.98	

*) Bei Stern 640) lies Juni 9.

Tag		641) δ Herculis AR.	Δ	Dekl.	Δ	643) π Herculis AR.	Δ	Dekl.	Δ
1940		17h 12m		+24° 54′		17h 12m		+36° 52′	
		s		″		s		″	
Jan.	1	32.847	197	34.99	271	55.975	200	35.19	308
	11	33.044	232	32.28	253	56.175	242	32.11	287
	21	33.276	261	29.75	227	56.417	276	29.24	254
	31	33.537	281	27.48	191	56.693	302	26.70	211
Febr.	10	33.818	295	25.57	149	56.995	320	24.59	162
	20	34.113	302	24.08	101	57.315	329	22.97	106
März	1	34.415	302	23.07	49	57.644	331	21.91	46
	11	34.717	297	22.58	3	57.975	325	21.45	13
	21	35.014	286	22.61	55	58.300	313	21.58	71
	31	35.300	271	23.16	102	58.613	295	22.29	126
Apr.	10	35.571	252	24.18	145	58.908	272	23.55	174
	20	35.823	228	25.63	181	59.180	244	25.29	215
	30	36.051	201	27.44	211	59.424	210	27.44	248
Mai	10	36.252	171	29.55	231	59.634	175	29.92	272
	20	36.423	137	31.86	243	59.809	135	32.64	286
	30	36.560	100	34.29	249	59.944	92	35.50	291
Juni	9	[9] 36.660	62	36.78	247	[10] 60.036	48	38.41	289
	18	36.722	22	39.25	237	60.084	3	41.30	277
	28	36.744	19	41.62	221	60.087	42	44.07	259
Juli	8	36.725	58	43.83	201	60.045	87	46.66	234
	18	36.667	97	45.84	175	59.958	129	49.00	204
	28	36.570	132	47.59	147	59.829	166	51.04	170
Aug.	7	36.438	162	49.06	115	59.663	199	52.74	132
	17	36.276	187	50.21	81	59.464	226	54.06	91
	27	36.089	204	51.02	45	59.238	244	54.97	49
Sept.	6	35.885	214	51.47	8	58.994	253	55.46	5
	16	35.671	214	51.55	30	58.741	253	55.51	41
	26	35.457	203	51.25	68	58.488	243	55.10	86
Okt.	6	35.254	184	50.57	105	58.245	221	54.24	129
	16	35.070	155	49.52	141	58.024	190	52.95	172
	26	34.915	118	48.11	176	57.834	150	51.23	212
Nov.	5	34.797	74	46.35	208	57.684	103	49.11	247
	15	34.723	26	44.27	236	57.581	50	46.64	278
	25	34.697	25	41.91	258	57.531	6	43.86	302
Dez.	5	34.722	77	39.33	273	57.537	63	40.84	317
	15	34.799	126	36.60	281	57.600	118	37.67	324
	25	34.925	170	33.79	279	57.718	170	34.43	319
	35	35.095		31.00		57.888		31.24	
Mittl. Ort		33.912		31.28		57.322		32.60	
sec δ, tg δ		1.103		+0.464		1.250		+0.750	
a, *a′*		+2.5		−4.1		+2.1		−4.1	
b, *b′*		−0.01		+0.98		−0.01		+0.98	

Tag		644) ϑ Ophiuchi AR.	Δ	Dekl.	Δ	645) β Arae AR.	Δ	Dekl.	Δ
1940		17h 18m		−24° 56′		17h 20m		−55° 28′	
		s		″		s		″	
Jan.	1	18.532	230	19.24	18	17.048	335	18.80	151
	11	18.762	264	19.42	28	17.383	390	17.29	127
	21	19.026	288	19.70	35	17.773	433	16.02	99
	31	19.314	307	20.05	40	18.206	465	15.03	71
Febr.	10	19.621	317	20.45	41	18.671	485	14.32	41
	20	19.938	322	20.86	40	19.156	497	13.91	13
März	1	20.260	322	21.26	36	19.653	499	13.78	15
	11	20.582	317	21.62	32	20.152	493	13.93	41
	21	20.899	308	21.94	27	20.645	480	14.34	65
	31	21.207	295	22.21	21	21.125	460	14.99	89
Apr.	10	21.502	280	22.42	17	21.585	434	15.88	111
	20	21.782	261	22.59	13	22.019	402	16.99	130
	30	22.043	238	22.72	11	22.421	363	18.29	148
Mai	10	22.281	211	22.83	11	22.784	318	19.77	162
	20	22.492	180	22.94	12	23.102	266	21.39	174
	30	22.672	145	23.06	13	23.368	208	23.13	181
Juni	9	[11] 22.817	107	23.19	14	[11] 23.576	147	24.94	186
	18	22.924	67	23.33	16	23.723	81	26.80	184
	28	22.991	25	23.49	18	23.804	13	28.64	178
Juli	8	23.016	19	23.67	17	23.817	55	30.42	167
	18	22.997	61	23.84	16	23.762	120	32.09	149
	28	22.936	99	24.00	13	23.642	181	33.58	128
Aug.	7	22.837	134	24.13	8	23.461	235	34.86	100
	17	22.703	163	24.21	2	23.226	278	35.86	69
	27	22.540	183	24.23	6	22.948	310	36.55	35
Sept.	6	22.357	195	24.17	14	22.638	326	36.90	3
	16	22.162	195	24.03	21	22.312	328	36.87	40
	26	21.967	186	23.82	29	21.984	312	36.47	77
Okt.	6	21.781	165	23.53	34	21.672	279	35.70	111
	16	21.616	133	23.19	37	21.393	232	34.59	141
	26	21.483	93	22.82	37	21.161	170	33.18	166
Nov.	5	21.390	46	22.45	35	20.991	98	31.52	184
	15	21.344	6	22.10	28	20.893	19	29.68	194
	25	21.350	59	21.82	20	20.874	64	27.74	196
Dez.	5	21.409	111	21.62	10	20.938	146	25.78	192
	15	21.520	161	21.52	2	21.084	224	23.86	180
	25	21.681	205	21.54	14	21.308	294	22.06	162
	35	21.886		21.68		21.602		20.44	
Mittl. Ort		19.309		29.03		18.375		31.70	
sec δ, tg δ		1.103		−0.465		1.764		−1.454	
a, *a′*		+3.7		−3.6		+5.0		−3.5	
b, *b′*		+0.01		+0.98		+0.02		+0.99	

Scheinbare Sternörter 1940

Tag		648) δ Arae AR.		648) δ Arae Dekl.		651) α Arae AR.		651) α Arae Dekl.		653) β Draconis AR.		653) β Draconis Dekl.		652) λ Scorpii AR.		652) λ Scorpii Dekl.	
1940		$17^h 25^m$		$-60°37'$		$17^h 27^m$		$-49°49'$		$17^h 29^m$		$+52°20'$		$17^h 29^m$		$-37°3'$	
Jan.	1	38.95 s	37	57.18 ″	181	10.786 s	294	38.63 ″	127	2.454 s	193	45.26 ″	343	30.944 s	246	32.16 ″	59
	11	39.32	44	55.37	154	11.080	342	37.36	106	2.647	254	41.83	319	31.190	285	31.57	44
	21	39.76	48	53.83	125	11.422	381	36.30	84	2.901	305	38.64	284	31.475	315	31.13	29
	31	40.24	52	52.58	94	11.803	409	35.46	59	3.206	347	35.80	239	31.790	337	30.84	15
Febr.	10	40.76	55	51.64	62	12.212	429	34.87	36	3.553	378	33.41	185	32.127	353	30.69	3
	20	41.31	57	51.02	29	12.641	439	34.51	13	3.931	399	31.56	124	32.480	360	30.66	8
März	1	41.88	57	50.73	3	13.080	442	34.38	10	4.330	409	30.32	59	32.840	363	30.74	18
	11	42.45	56	50.76	35	13.522	438	34.48	31	4.739	407	29.73	6	33.203	359	30.92	26
	21	43.01	55	51.11	63	13.960	428	34.79	51	5.146	395	29.79	72	33.562	352	31.18	33
	31	43.56	54	51.74	92	14.388	413	35.30	69	5.541	374	30.51	133	33.914	340	31.51	40
Apr.	10	44.10	50	52.66	117	14.801	391	35.99	88	5.915	345	31.84	188	34.254	323	31.91	47
	20	44.60	46	53.83	141	15.192	365	36.87	103	6.260	307	33.72	235	34.577	304	32.38	54
	30	45.06	42	55.24	162	15.557	332	37.90	118	6.567	263	36.07	273	34.881	278	32.92	61
Mai	10	45.48	36	56.86	180	15.889	294	39.08	132	6.830	214	38.80	301	35.159	248	33.53	67
	20	45.84	31	58.66	194	16.183	250	40.40	142	7.044	160	41.81	320	35.407	213	34.20	73
	30	46.15	24	60.60	204	16.433	200	41.82	150	7.204	103	45.01	329	35.620	174	34.93	79
Juni	9	46.39	17	62.64	209	16.633	146	43.32	154	7.307	43	48.30	328	35.794	131	35.72	83
	18	[13] 46.56	9	64.73	209	[13] 16.779	89	44.86	155	[14] 7.350	17	51.58	317	[14] 35.925	85	36.55	85
	28	46.65	1	66.82	203	16.868	29	46.41	152	7.333	77	54.75	300	36.010	36	37.40	84
Juli	8	46.66	6	68.85	192	16.897	32	47.93	143	7.256	135	57.75	273	36.046	14	38.24	81
	18	46.60	14	70.77	173	16.865	91	49.36	130	7.121	188	60.48	242	36.032	62	39.05	74
	28	46.46	21	72.50	149	16.774	146	50.66	112	6.933	238	62.90	204	35.970	107	39.79	64
Aug.	7	46.25	28	73.99	119	16.628	195	51.78	90	6.695	280	64.94	162	35.863	149	40.43	52
	17	45.97	32	75.18	86	16.433	235	52.68	64	6.415	315	66.56	117	35.714	183	40.95	35
	27	45.65	36	76.04	47	16.198	265	53.32	34	6.100	340	67.73	69	35.531	207	41.30	18
Sept.	6	45.29	38	76.51	5	15.933	283	53.66	2	5.760	354	68.42	19	35.324	223	41.48	2
	16	44.91	39	76.56	36	15.650	285	53.68	30	5.406	356	68.61	32	35.101	226	41.46	23
	26	44.52	37	76.20	77	15.365	273	53.38	62	5.050	347	68.29	83	34.875	217	41.23	42
Okt.	6	44.15	33	75.43	116	15.092	247	52.76	93	4.703	326	67.46	134	34.658	195	40.81	60
	16	43.82	29	74.27	151	14.845	205	51.83	118	4.377	291	66.12	181	34.463	162	40.21	75
	26	43.53	21	72.76	180	14.640	152	50.65	140	4.086	246	64.31	227	34.301	118	39.46	87
Nov.	5	43.32	13	70.96	202	14.488	89	49.25	156	3.840	190	62.04	269	34.183	66	38.59	94
	15	43.19	4	68.94	217	14.399	19	47.69	164	3.650	128	59.35	303	34.117	9	37.65	97
	25	43.15	5	66.77	222	14.380	53	46.05	167	3.522	60	56.32	330	34.108	50	36.68	94
Dez.	5	43.20	15	64.55	219	14.433	126	44.38	162	3.462	12	53.02	349	34.158	109	35.74	88
	15	43.35	23	62.36	209	14.559	195	42.76	151	3.474	83	49.53	357	34.267	166	34.86	77
	25	43.58	32	60.27	191	14.754	257	41.25	137	3.557	153	45.96	353	34.433	216	34.09	65
	35	43.90		58.36		15.011		39.88		3.710		42.43		34.649		33.44	
Mittl. Ort		40.58		70.22		11.961		50.72		4.473		42.40		31.869		42.97	
sec δ, tg δ		2.039		−1.777		1.550		−1.185		1.637		+1.296		1.253		−0.755	
a, a'		+5.4		−3.0		+4.6		−2.9		+1.4		−2.7		+4.1		−2.7	
b, b'		+0.02		+0.99		+0.01		+0.99		−0.01		+0.99		+0.01		+0.99	

Tag	656) α Ophiuchi AR.	656) α Ophiuchi Dekl.	654) ϑ Scorpii AR.	654) ϑ Scorpii Dekl.	658) ξ Serpentis AR.	658) ξ Serpentis Dekl.	664) ω Draconis AR.	664) ω Draconis Dekl.
1940	$17^h 32^m$	+12° 36′	$17^h 32^m$	−42° 57′	$17^h 34^m$	−15° 21′	$17^h 37^m$	+68° 46′
	s	"	s	"	s	"	s	"
Jan. 1	7.940 181	14.12 218	59.214 259	30.56 94	8.127 201	36.39 66	14.03 22	72.34 352
11	8.121 215	11.94 208	59.473 303	29.62 77	8.328 234	37.05 70	14.25 33	68.82 329
21	8.336 241	9.86 190	59.776 336	28.85 60	8.562 260	37.75 69	14.58 42	65.53 294
31	8.577 263	7.96 164	60.112 362	28.25 41	8.822 279	38.44 66	15.00 51	62.59 248
Febr. 10	8.840 276	6.32 132	60.474 380	27.84 24	9.101 291	39.10 57	15.51 57	60.11 193
20	9.116 285	5.00 95	60.854 389	27.60 6	9.392 299	39.67 47	16.08 62	58.18 132
März 1	9.401 287	4.05 54	61.243 393	27.54 8	9.691 300	40.14 33	16.70 64	56.86 65
11	9.688 286	3.51 11	61.636 390	27.62 22	9.991 299	40.47 18	17.34 65	56.21 3
21	9.974 279	3.40 31	62.026 383	27.84 36	10.290 293	40.65 3	17.99 63	56.24 70
31	10.253 269	3.71 71	62.409 370	28.20 49	10.583 283	40.68 12	18.62 60	56.94 133
Apr. 10	10.522 254	4.42 107	62.779 352	28.69 61	10.866 271	40.56 25	19.22 54	58.27 190
20	10.776 237	5.49 137	63.131 331	29.30 73	11.137 255	40.31 34	19.76 48	60.17 240
30	11.013 215	6.86 163	63.462 303	30.03 84	11.392 234	39.97 43	20.24 40	62.57 280
Mai 10	11.228 189	8.49 182	63.765 271	30.87 94	11.626 210	39.54 47	20.64 31	65.37 310
20	11.417 159	10.31 193	64.036 234	31.81 102	11.836 182	39.07 49	20.95 21	68.47 331
30	11.576 127	12.24 198	64.270 190	32.83 111	12.018 150	38.58 49	21.16 11	71.78 341
Juni 9	[14] 11.703 92	14.22 198	[15] 64.460 143	33.94 115	[15] 12.168 115	38.09 47	[16] 21.27 1	75.19 341
18	11.795 54	16.20 191	64.603 92	35.09 117	12.283 76	37.62 42	21.28 9	78.60 332
28	11.849 15	18.11 180	64.695 39	36.26 116	12.359 36	37.20 37	21.19 19	81.92 314
Juli 8	11.864 24	19.91 165	64.734 15	37.42 112	12.395 5	36.83 32	21.00 29	85.06 289
18	11.840 63	21.56 146	64.719 68	38.54 102	12.390 46	36.51 27	20.71 38	87.95 256
28	11.777 100	23.02 124	64.651 118	39.56 89	12.344 84	36.24 22	20.33 45	90.51 218
Aug. 7	11.677 131	24.26 101	64.533 162	40.45 73	12.260 118	36.02 19	19.88 52	92.69 176
17	11.546 158	25.27 75	64.371 200	41.18 52	12.142 148	35.83 15	19.36 58	94.45 129
27	11.388 178	26.02 48	64.171 228	41.70 29	11.994 170	35.68 12	18.78 62	95.74 79
Sept. 6	11.210 191	26.50 21	63.943 245	41.99 4	11.824 183	35.56 11	18.16 63	96.53 28
16	11.019 193	26.71 8	63.698 249	42.03 22	11.641 186	35.45 9	17.53 65	96.81 25
26	10.826 187	26.63 36	63.449 239	41.81 48	11.455 180	35.36 6	16.88 63	96.56 78
Okt. 6	10.639 171	26.27 66	63.210 217	41.33 72	11.275 163	35.30 3	16.25 61	95.78 130
16	10.468 145	25.61 94	62.993 182	40.61 93	11.112 136	35.27 1	15.64 55	94.48 180
26	10.323 112	24.67 122	62.811 135	39.68 109	10.976 100	35.28 8	15.09 49	92.68 228
Nov. 5	10.211 72	23.45 149	62.676 79	38.59 122	10.876 58	35.36 17	14.60 41	90.40 270
15	10.139 27	21.96 173	62.597 18	37.37 128	10.818 11	35.53 25	14.19 31	87.70 307
25	10.112 21	20.23 194	62.579 46	36.09 128	10.807 39	35.78 36	13.88 20	84.63 337
Dez. 5	10.133 68	18.29 209	62.625 111	34.81 124	10.846 88	36.14 47	13.68 9	81.26 356
15	10.201 114	16.20 220	62.736 171	33.57 114	10.934 134	36.61 57	13.59 3	77.70 365
25	10.315 157	14.00 222	62.907 227	32.43 101	11.068 177	37.18 65	13.62 15	74.05 362
35	10.472	11.78	63.134	31.42	11.245	37.83	13.77	70.43
Mittl. Ort	8.853	8.27	60.251	41.80	8.920	44.97	17.88	69.16
sec δ, tg δ	1.025	+0.223	1.367	−0.931	1.037	−0.275	2.764	+2.576
a, a′	+2.8	−2.4	+4.3	−2.4	+3.4	−2.3	−0.4	−2.0
b, b′	0.00	+0.99	+0.01	+0.99	0.00	+0.99	−0.02	+1.00

Tag	663) ι Herculis AR.		663) ι Herculis Dekl.		661) η Pavonis AR.		661) η Pavonis Dekl.		665) β Ophiuchi AR.		665) β Ophiuchi Dekl.		670) ψ Draconis *pr* AR.		670) ψ Draconis *pr* Dekl.	
1940	$17^h\ 37^m$		+46° 2′		$17^h\ 39^m$		−64° 41′		$17^h\ 40^m$		+4° 35′		$17^h\ 42^m$		+72° 10′	
	s		″		s		″		s		″		s		″	
Jan. 1	44.451	176	18.40	333	48.34	38	39.63	211	29.551	178	33.84	175	55.35	22	47.53	353
11	44.627	227	15.07	312	48.72	46	37.52	186	29.729	210	32.09	169	55.57	35	44.00	331
21	44.854	273	11.95	282	49.18	52	35.66	157	29.939	237	30.40	157	55.92	47	40.69	298
31	45.127	310	9.13	239	49.70	58	34.09	125	30.176	257	28.83	137	56.39	57	37.71	254
Febr. 10	45.437	338	6.74	188	50.28	61	32.84	91	30.433	272	27.46	111	56.96	66	35.17	200
20	45.775	356	4.86	131	50.89	63	31.93	57	30.705	281	26.35	82	57.62	71	33.17	139
März 1	46.131	366	3.55	68	51.52	65	31.36	22	30.986	284	25.53	48	58.33	74	31.78	73
11	46.497	367	2.87	4	52.17	64	31.14	13	31.270	283	25.05	12	59.07	76	31.05	5
21	46.864	359	2.83	59	52.81	64	31.27	45	31.553	279	24.93	22	59.83	74	31.00	61
31	47.223	343	3.42	119	53.45	61	31.72	78	31.832	270	25.15	56	60.57	70	31.61	125
Apr. 10	47.566	319	4.61	173	54.06	58	32.50	108	32.102	258	25.71	86	61.27	64	32.86	182
20	47.885	289	6.34	220	54.64	55	33.58	136	32.360	242	26.57	112	61.91	56	34.68	233
30	48.174	254	8.54	259	55.19	50	34.94	161	32.602	222	27.69	132	62.47	47	37.01	274
Mai 10	48.428	212	11.13	289	55.69	43	36.55	183	32.824	198	29.01	148	62.94	37	39.75	305
20	48.640	167	14.02	308	56.12	37	38.38	201	33.022	171	30.49	158	63.31	25	42.80	327
30	48.807	117	17.10	317	56.49	30	40.39	215	33.193	139	32.07	161	63.56	13	46.07	338
Juni 9	48.924	65	20.27	319	56.79	21	42.54	223	33.332	105	33.68	161	63.69	0	49.45	339
18	[16] 48.989	12	23.46	310	[16] 57.00	12	44.77	226	[17] 33.437	68	35.29	155	[17] 63.69	11	52.84	332
28	49.001	41	26.56	295	57.12	4	47.03	223	33.505	29	36.84	146	63.58	23	56.16	314
Juli 8	48.960	94	29.51	271	57.16	6	49.26	213	33.534	10	38.30	133	63.35	35	59.30	290
18	48.866	143	32.22	241	57.10	15	51.39	196	33.524	49	39.63	119	63.00	45	62.20	260
28	48.723	190	34.63	207	56.95	23	53.35	173	33.475	86	40.82	101	62.55	54	64.80	222
Aug. 7	48.533	230	36.70	167	56.72	30	55.08	143	33.389	120	41.83	82	62.01	62	67.02	180
17	48.303	263	38.37	124	56.42	37	56.51	109	33.269	147	42.65	63	61.39	69	68.82	134
27	48.040	287	39.61	78	56.05	41	57.60	68	33.122	168	43.28	43	60.70	74	70.16	85
Sept. 6	47.753	303	40.39	31	55.64	44	58.28	25	32.954	182	43.71	21	59.96	76	71.01	34
16	47.450	307	40.70	18	55.20	45	58.53	19	32.772	187	43.92	0	59.20	77	71.35	18
26	47.143	301	40.52	68	54.75	44	58.34	65	32.585	181	43.92	21	58.43	77	71.17	71
Okt. 6	46.842	282	39.84	117	54.31	40	57.69	109	32.404	167	43.71	44	57.66	72	70.46	123
16	46.560	253	38.67	164	53.91	35	56.60	148	32.237	142	43.27	66	56.94	68	69.23	174
26	46.307	213	37.03	208	53.56	28	55.12	182	32.095	110	42.61	88	56.26	61	67.49	222
Nov. 5	46.094	164	34.95	249	53.28	18	53.30	210	31.985	70	41.73	110	55.65	51	65.27	265
15	45.930	109	32.46	285	53.10	9	51.20	229	31.915	27	40.63	130	55.14	40	62.62	302
25	45.821	48	29.61	314	53.01	2	48.91	239	31.888	20	39.33	149	54.74	28	59.60	333
Dez. 5	45.773	15	26.47	333	53.03	12	46.52	241	31.908	67	37.84	163	54.46	14	56.27	354
15	45.788	78	23.14	343	53.15	23	44.11	235	31.975	112	36.21	173	54.32	0	52.73	363
25	45.866	139	19.71	343	53.38	33	41.76	220	32.087	153	34.48	178	54.32	13	49.10	363
35	46.005		16.28		53.71		39.56		32.240		32.70		54.45		45.47	
Mittl. Ort	46.137		14.55		50.38		52.12		30.407		27.04		59.98		43.81	
sec δ, tg δ	1.441		+1.037		2.340		−2.115		1.003		+0.080		3.267		+3.111	
a, *a′*	+1.7		−1.9		+5.9		−1.8		+3.0		−1.7		−1.1		−1.5	
b, *b′*	−0.01		+1.00		+0.01		+1.00		0.00		+1.00		−0.02		+1.00	

Tag	667) μ Herculis[1]) AR.		667) μ Herculis[1]) Dekl.		675) 35 Draconis AR.		675) 35 Draconis Dekl.		671) ξ Draconis AR.		671) ξ Draconis Dekl.		672) ϑ Herculis AR.		672) ϑ Herculis Dekl.	
1940	17h 44m		+27° 45′		17h 51m		+76° 58′		17h 52m		+56° 52′		17h 54m		+37° 15′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.358	166	21.94	282	61.40	22	24.33	349	27.035	161	58.12	351	10.249	152	32.01	312
11	5.524	205	19.12	267	61.62	40	20.84	330	27.196	232	54.61	332	10.401	199	28.89	297
21	5.729	238	16.45	243	62.02	58	17.54	299	27.428	295	51.29	302	10.600	238	25.92	270
31	5.967	264	14.02	209	62.60	71	14.55	258	27.723	348	48.27	260	10.838	271	23.22	234
Febr. 10	6.231	284	11.93	168	63.31	84	11.97	205	28.071	392	45.67	208	11.109	296	20.88	189
20	6.515	296	10.25	119	64.15	93	9.92	147	28.463	423	43.59	149	11.405	315	18.99	137
März 1	6.811	303	9.06	67	65.08	98	8.45	82	28.886	441	42.10	85	11.720	325	17.62	79
11	7.114	304	8.39	13	66.06	101	7.63	16	29.327	448	41.25	19	12.045	328	16.83	19
21	7.418	298	8.26	41	67.07	99	7.47	51	29.775	443	41.06	49	12.373	325	16.64	41
31	7.716	288	8.67	93	68.06	94	7.98	114	30.218	426	41.55	112	12.698	316	17.05	97
Apr. 10	8.004	273	9.60	139	69.00	87	9.12	172	30.644	398	42.67	170	13.014	300	18.02	150
20	8.277	252	10.99	179	69.87	76	10.84	223	31.042	361	44.37	221	13.314	278	19.52	196
30	8.529	228	12.78	213	70.63	64	13.07	266	31.403	315	46.58	265	13.592	250	21.48	234
Mai 10	8.757	199	14.91	238	71.27	50	15.73	299	31.718	262	49.23	297	13.842	217	23.82	264
20	8.956	165	17.29	255	71.77	34	18.72	322	31.980	203	52.20	322	14.059	180	26.46	285
30	9.121	129	19.84	263	72.11	17	21.94	335	32.183	139	55.42	335	14.239	139	29.31	297
Juni 9	9.250	89	22.47	265	72.28	1	25.29	339	32.322	73	58.77	338	14.378	95	32.28	300
18*)	[17] 9.339	47	25.12	258	[19] 72.29	16	28.68	332	[20] 32.395	4	62.15	333	[20] 14.473	47	35.28	295
28	9.386	4	27.70	245	72.13	32	32.00	318	32.399	65	65.48	319	14.520	0	38.23	282
Juli 8	9.390	38	30.15	225	71.81	47	35.18	295	32.334	131	68.67	297	14.520	48	41.05	263
18	9.352	81	32.40	201	71.34	62	38.13	267	32.203	194	71.64	267	14.472	95	43.68	237
28	9.271	120	34.41	173	70.72	74	40.80	231	32.009	252	74.31	233	14.377	138	46.05	205
Aug. 7	9.151	155	36.14	141	69.98	85	43.11	190	31.757	303	76.64	193	14.239	177	48.10	171
17	8.996	185	37.55	106	69.13	95	45.01	147	31.454	346	78.57	148	14.062	210	49.81	133
27	8.811	206	38.61	69	68.18	101	46.48	99	31.108	379	80.05	100	13.852	236	51.14	90
Sept. 6	8.605	221	39.30	30	67.17	105	47.47	48	30.729	400	81.05	51	13.616	252	52.04	47
16	8.384	226	39.60	10	66.12	107	47.95	2	30.329	408	81.56	1	13.364	260	52.51	3
26	8.158	221	39.50	49	65.05	106	47.93	56	29.921	404	81.55	54	13.104	256	52.54	44
Okt. 6	7.937	206	39.01	89	63.99	103	47.37	107	29.517	387	81.01	105	12.848	243	52.10	89
16	7.731	181	38.12	129	62.96	96	46.30	157	29.130	355	79.96	157	12.605	219	51.21	134
26	7.550	148	36.83	166	62.00	87	44.73	206	28.775	312	78.39	205	12.386	185	49.87	176
Nov. 5	7.402	107	35.17	200	61.13	75	42.67	251	28.463	256	76.34	250	12.201	143	48.11	216
15	7.295	60	33.17	232	60.38	61	40.16	289	28.207	191	73.84	288	12.058	95	45.95	252
25	7.235	11	30.85	257	59.77	45	37.27	320	28.016	120	70.96	321	11.963	42	43.43	281
Dez. 5	7.224	40	28.28	276	59.32	27	34.07	343	27.896	42	67.75	344	11.921	13	40.62	303
15	7.264	90	25.52	287	59.05	9	30.64	356	27.854	36	64.31	357	11.934	68	37.59	316
25	7.354	138	22.65	288	58.96	11	27.08	357	27.890	114	60.74	359	12.002	121	34.43	318
35	7.492		19.77		59.07		23.51		28.004		57.15		12.123		31.25	
Mittl. Ort	6.498		16.76		67.84		19.69		29.346		53.35		11.613		26.57	
sec δ, tg δ	1.130		+0.526		4.436		+4.322		1.830		+1.533		1.256		+0.761	
a, *a′*	+2.4		−1.4		−2.7		−0.7		+1.0		−0.7		+2.1		−0.5	
b, *b′*	0.00		+1.00		−0.01		+1.00		0.00		+1.00		0.00		+1.00	

[1]) Die jährliche Parallaxe (0.″111) ist bereits berücksichtigt.

*) Bei Stern 675), 671) und 672) lies Juni 19.

Scheinbare Sternörter 1940

Tag	676) γ Draconis				673) ν Ophiuchi				677) 67 Ophiuchi				679) γ Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$17^h\ 55^m$		$+51°\ 29'$		$17^h\ 55^m$		$-9°\ 45'$		$17^h\ 57^m$		$+2°\ 55'$		$18^h\ 1^m$		$-30°\ 25'$	
	s		″		s		″		s		″		s		″	
Jan. 1	10.711	153	47.94	345	42.475	175	56.43	91	37.431	163	65.79	163	56.190	196	26.69	37
11	10.864	214	44.49	327	42.650	209	57.34	91	37.594	196	64.16	158	56.386	235	26.32	29
21	11.078	269	41.22	298	42.859	237	58.25	86	37.790	225	62.58	147	56.621	267	26.03	22
31	11.347	315	38.24	257	43.096	258	59.11	78	38.015	247	61.11	129	56.888	292	25.81	15
Febr. 10	11.662	351	35.67	207	43.354	273	59.89	66	38.262	264	59.82	105	57.180	311	25.66	11
20	12.013	378	33.60	150	43.627	284	60.55	48	38.526	274	58.77	77	57.491	323	25.55	8
März 1	12.391	395	32.10	87	43.911	290	61.03	29	38.800	282	58.00	46	57.814	331	25.47	6
11	12.786	400	31.23	21	44.201	291	61.32	8	39.082	283	57.54	12	58.145	333	25.41	5
21	13.186	397	31.02	44	44.492	289	61.40	12	39.365	281	57.42	21	58.478	332	25.36	4
31	13.583	383	31.46	106	44.781	283	61.28	33	39.646	275	57.63	54	58.810	327	25.32	3
Apr. 10	13.966	360	32.52	164	45.064	273	60.95	50	39.921	266	58.17	82	59.137	317	25.29	0
20	14.326	330	34.16	215	45.337	261	60.45	65	40.187	253	58.99	108	59.454	302	25.29	2
30	14.656	291	36.31	257	45.598	242	59.80	76	40.440	234	60.07	128	59.756	284	25.31	7
Mai 10	14.947	246	38.88	291	45.840	221	59.04	84	40.674	213	61.35	143	60.040	259	25.38	13
20	15.193	196	41.79	314	46.061	194	58.20	88	40.887	186	62.78	153	60.299	231	25.51	20
30	15.389	141	44.93	327	46.255	165	57.32	87	41.073	155	64.31	156	60.530	196	25.71	26
Juni 9	15.530	83	48.20	332	46.420	130	56.45	85	41.228	122	65.87	157	60.726	158	25.97	34
19	[20] 15.613	23	51.52	327	[20] 46.550	92	55.60	80	[21] 41.350	85	67.44	151	[22] 60.884	114	26.31	40
28	15.636	38	54.79	313	46.642	52	54.80	73	41.435	45	68.95	142	60.998	69	26.71	46
Juli 8	15.598	97	57.92	293	46.694	12	54.07	64	41.480	6	70.37	130	61.067	21	27.17	48
18	15.501	154	60.85	264	46.706	30	53.43	54	41.486	35	71.67	115	61.088	26	27.65	50
28	15.347	206	63.49	230	46.676	70	52.89	46	41.451	74	72.82	99	61.062	72	28.15	48
Aug. 7	15.141	253	65.79	191	46.606	105	52.43	36	41.377	109	73.81	82	60.990	114	28.63	44
17	14.888	292	67.70	149	46.501	137	52.07	27	41.268	138	74.63	62	60.876	151	29.07	37
27	14.596	323	69.19	102	46.364	161	51.80	19	41.130	163	75.25	44	60.725	181	29.44	26
Sept. 6	14.273	342	70.21	53	46.203	177	51.61	10	40.967	179	75.69	24	60.544	200	29.70	16
16	13.931	352	70.74	2	46.026	184	51.51	3	40.788	186	75.93	4	60.344	209	29.86	2
26	13.579	348	70.76	48	45.842	182	51.48	4	40.602	183	75.97	16	60.135	207	29.88	12
Okt. 6	13.231	332	70.28	100	45.660	168	51.52	13	40.419	171	75.81	36	59.928	193	29.76	25
16	12.899	304	69.28	149	45.492	145	51.65	23	40.248	149	75.45	58	59.735	168	29.51	36
26	12.595	265	67.79	197	45.347	114	51.88	32	40.099	119	74.87	78	59.567	133	29.15	45
Nov. 5	12.330	216	65.82	242	45.233	75	52.20	43	39.980	82	74.09	98	59.434	89	28.70	52
15	12.114	157	63.40	280	45.158	31	52.63	54	39.898	39	73.11	117	59.345	39	28.18	55
25	11.957	94	60.60	312	45.127	16	53.17	65	39.859	5	71.94	135	59.306	14	27.63	55
Dez. 5	11.863	26	57.48	336	45.143	63	53.82	76	39.864	52	70.59	150	59.320	67	27.08	52
15	11.837	44	54.12	349	45.206	108	54.58	86	39.916	97	69.09	159	59.387	120	26.56	46
25	11.881	112	50.63	352	45.314	151	55.44	91	40.013	138	67.50	165	59.507	168	26.10	39
35	11.993		47.11		45.465		56.35		40.151		65.85		59.675		25.71	
Mittl. Ort	12.654		42.84		43.305		64.50		38.295		58.49		57.138		35.96	
sec δ, tg δ	1.606		+1.257		1.015		−0.172		1.001		+0.051		1.160		−0.587	
a, *a′*	+1.4		−0.4		+3.3		−0.4		+3.0		−0.2		+3.9		+0.2	
b, *b′*	0.00		+1.00		0.00		+1.00		0.00		+1.00		0.00		+1.00	

Obere Kulmination Greenwich

Tag	680) 72 Ophiuchi AR.	680) 72 Ophiuchi Dekl.	681) ο Herculis AR.	681) ο Herculis Dekl.	682) μ Sagittarii AR.	682) μ Sagittarii Dekl.	688) η Serpentis AR.	688) η Serpentis Dekl.
1940	$18^h 4^m$	$+9° 33'$	$18^h 5^m$	$+28° 45'$	$18^h 10^m$	$-21° 4'$	$18^h 18^m$	$-2° 54'$
	s	"	s	"	s	"	s	"
Jan. 1	29.308 152	21.10 196	10.861 142	17.36 282	9.554 174	26.19 16	11.362 147	49.58 126
11	29.460 187	19.14 189	11.003 183	14.54 271	9.728 211	26.35 20	11.509 182	50.84 123
21	29.647 217	17.25 175	11.186 219	11.83 249	9.939 240	26.55 22	11.691 211	52.07 115
31	29.864 240	15.50 154	11.405 249	9.34 218	10.179 265	26.77 20	11.902 235	53.22 102
Febr. 10	30.104 259	13.96 125	11.654 272	7.16 178	10.444 282	26.97 17	12.137 253	54.24 83
20	30.363 272	12.71 92	11.926 289	5.38 131	10.726 296	27.14 10	12.390 268	55.07 61
März 1	30.635 280	11.79 55	12.215 300	4.07 79	11.022 304	27.24 3	12.658 277	55.68 35
11	30.915 283	11.24 15	12.515 305	3.28 25	11.326 308	27.27 6	12.935 282	56.03 7
21	31.198 282	11.09 25	12.820 304	3.03 30	11.634 308	27.21 15	13.217 284	56.10 20
31	31.480 277	11.34 63	13.124 298	3.33 83	11.942 304	27.06 23	13.501 281	55.90 47
Apr. 10	31.757 268	11.97 97	13.422 286	4.16 131	12.246 296	26.83 31	13.782 274	55.43 72
20	32.025 255	12.94 128	13.708 269	5.47 174	12.542 285	26.52 35	14.056 265	54.71 92
30	32.280 238	14.22 153	13.977 247	7.21 211	12.827 267	26.17 37	14.321 249	53.79 109
Mai 10	32.518 215	15.75 172	14.224 220	9.32 238	13.094 247	25.80 37	14.570 230	52.70 120
20	32.733 188	17.47 185	14.444 188	11.70 259	13.341 221	25.43 35	14.800 205	51.50 128
30	32.921 158	19.32 191	14.632 152	14.29 271	13.562 190	25.08 30	15.005 177	50.22 131
Juni 9	33.079 123	21.23 192	14.784 112	17.00 274	13.752 154	24.78 25	15.182 143	48.91 128
19	[23] 33.202 86	23.15 188	[23] 14.896 69	19.74 271	[24] 13.906 115	24.53 18	[26] 15.325 107	47.63 124
28	33.288 46	25.03 178	14.965 26	22.45 260	14.021 72	24.35 10	15.432 67	46.39 114
Juli 8	33.334 5	26.81 164	14.991 19	25.05 242	14.093 28	24.25 4	15.499 26	45.25 103
18	33.339 35	28.45 147	14.972 63	27.47 221	14.121 16	24.21 1	15.525 16	44.22 91
28	33.304 75	29.92 128	14.909 106	29.68 193	14.105 60	24.22 6	15.509 56	43.31 77
Aug. 7	33.229 111	31.20 106	14.803 143	31.61 161	14.045 100	24.28 9	15.453 94	42.54 62
17	33.118 141	32.26 82	14.660 176	33.22 128	13.945 135	24.37 9	15.359 127	41.92 47
27	32.977 166	33.08 59	14.484 201	34.50 91	13.810 162	24.46 9	15.232 154	41.45 32
Sept. 6	32.811 183	33.67 33	14.283 220	35.41 52	13.648 183	24.55 7	15.078 173	41.13 18
16	32.628 191	34.00 7	14.063 228	35.93 12	13.465 193	24.62 3	14.905 184	40.95 3
26	32.437 190	34.07 18	13.835 227	36.05 28	13.272 192	24.65 1	14.721 184	40.92 12
Okt. 6	32.247 179	33.89 45	13.608 216	35.77 70	13.080 180	24.64 5	14.537 175	41.04 26
16	32.068 158	33.44 72	13.392 194	35.07 111	12.900 159	24.59 7	14.362 156	41.30 41
26	31.910 129	32.72 97	13.198 165	33.96 149	12.741 127	24.52 8	14.206 129	41.71 57
Nov. 5	31.781 92	31.75 122	13.033 126	32.47 185	12.614 87	24.44 8	14.077 93	42.28 71
15	31.689 51	30.53 146	12.907 83	30.62 219	12.527 43	24.36 6	13.984 53	42.99 87
25	31.638 7	29.07 166	12.824 34	28.43 247	12.484 6	24.30 1	13.931 9	43.86 100
Dez. 5	31.631 39	27.41 182	12.790 15	25.96 269	12.490 55	24.29 4	13.922 36	44.86 113
15	31.670 85	25.59 194	12.805 66	23.27 283	12.545 103	24.33 10	13.958 80	45.99 121
25	31.755 127	23.65 199	12.871 113	20.44 287	12.648 147	24.43 16	14.038 122	47.20 127
35	31.882	21.66	12.984	17.57	12.795	24.59	14.160	48.47
Mittl. Ort	30.218	14.00	12.018	10.96	10.441	34.75	12.221	57.39
sec δ, tg δ	1.014	+0.168	1.141	+0.549	1.072	−0.385	1.001	−0.051
a, a'	+2.8	+0.4	+2.3	+0.5	+3.6	+0.9	+3.1	+1.6
b, b'	0.00	+1.00	0.00	+1.00	0.00	+1.00	0.00	+1.00

Scheinbare Sternörter 1940

Tag	689) ε Sagittarii AR.		689) ε Sagittarii Dekl.		690) 109 Herculis AR.		690) 109 Herculis Dekl.		695) χ Draconis[1]) AR.		695) χ Draconis[1]) Dekl.		691) α Telescopii AR.		691) α Telescopii Dekl.	
1940	$18^h\ 20^m$		$-34°24'$		$18^h\ 21^m$		$+21°44'$		$18^h\ 22^m$		$+72°42'$		$18^h\ 22^m$		$-45°59'$	
	s		"		s		"		s		"		s		"	
Jan. 1	10.328	183	44.80	70	7.346	129	35.60	252	3.74	10	33.96	356	30.158	205	63.35	140
11	10.511	225	44.10	63	7.475	168	33.08	244	3.84	25	30.40	345	30.363	256	61.95	130
21	10.736	261	43.47	56	7.643	202	30.64	226	4.09	38	26.95	321	30.619	299	60.65	118
31	10.997	289	42.91	48	7.845	231	28.38	200	4.47	50	23.74	285	30.918	334	59.47	103
Febr. 10	11.286	311	42.43	41	8.076	254	26.38	166	4.97	60	20.89	239	31.252	362	58.44	87
20	11.597	327	42.02	36	8.330	271	24.72	124	5.57	67	18.50	184	31.614	382	57.57	72
März 1	11.924	339	41.66	31	8.601	284	23.48	78	6.24	74	16.66	121	31.996	397	56.85	55
11	12.263	346	41.35	25	8.885	292	22.70	29	6.98	77	15.45	55	32.393	405	56.30	39
21	12.609	347	41.10	20	9.177	293	22.41	21	7.75	77	14.90	11	32.798	408	55.91	21
31	12.956	344	40.90	15	9.470	290	22.62	69	8.52	76	15.01	77	33.206	404	55.70	5
Apr. 10	13.300	337	40.75	8	9.760	283	23.31	113	9.28	72	15.78	139	33.610	396	55.65	13
20	13.637	326	40.67	1	10.043	270	24.44	154	10.00	65	17.17	195	34.006	382	55.78	31
30	13.963	308	40.66	8	10.313	252	25.98	187	10.65	57	19.12	243	34.388	361	56.09	48
Mai 10	14.271	285	40.74	18	10.565	229	27.85	215	11.22	48	21.55	282	34.749	332	56.57	67
20	14.556	257	40.92	29	10.794	201	30.00	233	11.70	37	24.37	312	35.081	299	57.24	83
30	14.813	222	41.21	39	10.995	169	32.33	245	12.07	25	27.49	332	35.380	258	58.07	99
Juni 9	15.035	182	41.60	49	11.164	132	34.78	250	12.32	12	30.81	343	35.638	211	59.06	112
19	15.217	139	42.09	58	11.296	93	37.28	246	12.44	0	34.24	343	35.849	158	60.18	123
28	[27] 15.356	90	42.67	65	[27] 11.389	50	39.74	238	[27] 12.44	13	37.67	335	[27] 36.007	102	61.41	130
Juli 8	15.446	40	43.32	71	11.439	7	42.12	223	12.31	26	41.02	319	36.109	42	62.71	133
18	15.486	10	44.03	73	11.446	37	44.35	204	12.05	37	44.21	294	36.151	17	64.04	131
28	15.476	61	44.76	71	11.409	78	46.39	180	11.68	47	47.15	266	36.134	76	65.35	125
Aug. 7	15.415	106	45.47	66	11.331	117	48.19	152	11.21	57	49.81	228	36.058	130	66.60	114
17	15.309	147	46.13	58	11.214	150	49.71	122	10.64	65	52.09	187	35.928	178	67.74	97
27	15.162	181	46.71	47	11.064	178	50.93	90	9.99	72	53.96	141	35.750	218	68.71	76
Sept. 6	14.981	204	47.18	32	10.886	198	51.83	56	9.27	76	55.37	92	35.532	246	69.47	52
16	14.777	218	47.50	16	10.688	208	52.39	21	8.51	80	56.29	42	35.286	263	69.99	24
26	14.559	220	47.66	2	10.480	210	52.60	15	7.71	79	56.71	12	35.023	265	70.23	6
Okt. 6	14.339	208	47.64	20	10.270	201	52.45	51	6.92	78	56.59	65	34.758	254	70.17	34
16	14.131	186	47.44	36	10.069	183	51.94	87	6.14	75	55.94	118	34.504	228	69.83	62
26	13.945	152	47.08	51	9.886	157	51.07	123	5.39	69	54.76	170	34.276	189	69.21	88
Nov. 5	13.793	110	46.57	63	9.729	121	49.84	156	4.70	60	53.06	219	34.087	140	68.33	110
15	13.683	60	45.94	72	9.608	81	48.28	186	4.10	51	50.87	263	33.947	82	67.23	127
25	13.623	7	45.22	76	9.527	37	46.42	213	3.59	39	48.24	300	33.865	20	65.96	139
Dez. 5	13.616	48	44.46	77	9.490	10	44.29	234	3.20	26	45.24	331	33.845	45	64.57	145
15	13.664	102	43.69	75	9.500	57	41.95	248	2.94	13	41.93	351	33.890	108	63.12	145
25	13.766	153	42.94	71	9.557	102	39.47	256	2.81	2	38.42	359	33.998	169	61.67	142
35	13.919		42.23		9.659		36.91		2.83		34.83		34.167		60.25	
Mittl. Ort	11.374		53.61		8.380		28.26		8.31		26.54		31.464		72.44	
sec δ, tg δ	1.212		−0.685		1.077		+0.399		3.364		+3.212		1.440		−1.036	
a, *a'*	+4.0		+1.8		+2.5		+1.8		−1.2		+1.9		+4.5		+2.0	
b, *b'*	0.00		+1.00		0.00		+1.00		+0.02		+1.00		−0.01		+1.00	

[1]) Die jährliche Parallaxe (0.118) ist bereits berücksichtigt.

Tag	694) 39 Draconis AR.		694) 39 Draconis Dekl.		699) α Lyrae[1]) AR.		699) α Lyrae[1]) Dekl.		698) ζ Pavonis AR.		698) ζ Pavonis Dekl.		703) 110 Herculis AR.		703) 110 Herculis Dekl.	
1940	$18^h 22^m$		+58° 45′		$18^h 34^m$		+38° 43′		$18^h 35^m$		−71° 28′		$18^h 43^m$		+20° 29′	
	s		"		s		"		s		"		s		"	
Jan. 1	59.575	107	63.13	353	52.998	106	44.19	311	58.75	32	49.71	274	3.685	107	23.59	242
11	59.682	184	59.60	342	53.104	154	41.08	304	59.07	44	46.97	261	3.792	146	21.17	236
21	59.866	255	56.18	319	53.258	198	38.04	283	59.51	55	44.36	241	3.938	182	18.81	222
31	60.121	318	52.99	283	53.456	237	35.21	253	60.06	63	41.95	215	4.120	211	16.59	199
Febr. 10	60.439	372	50.16	236	53.693	270	32.68	212	60.69	71	39.80	184	4.331	237	14.60	167
20	60.811	415	47.80	181	53.963	296	30.56	164	61.40	77	37.96	151	4.568	258	12.93	127
März 1	61.226	445	45.99	119	54.259	315	28.92	109	62.17	81	36.45	116	4.826	273	11.66	84
11	61.671	462	44.80	54	54.574	328	27.83	50	62.98	83	35.29	77	5.099	284	10.82	37
21	62.133	467	44.26	13	54.902	333	27.33	10	63.81	84	34.52	39	5.383	291	10.45	12
31	62.600	459	44.39	78	55.235	332	27.43	69	64.65	84	34.13	0	5.674	291	10.57	59
Apr. 10	63.059	439	45.17	140	55.567	323	28.12	125	65.49	83	34.13	39	5.965	288	11.16	104
20	63.498	408	46.57	195	55.890	307	29.37	176	66.32	79	34.52	77	6.253	278	12.20	144
30	63.906	366	48.52	243	56.197	286	31.13	219	67.11	74	35.29	112	6.531	264	13.64	179
Mai 10	64.272	316	50.95	283	56.483	257	33.32	255	67.85	69	36.41	146	6.795	244	15.43	207
20	64.588	257	53.78	312	56.740	223	35.87	282	68.54	60	37.87	177	7.039	219	17.50	228
30	64.845	192	56.90	332	56.963	184	38.69	300	69.14	51	39.64	203	7.258	189	19.78	241
Juni 9	65.037	123	60.22	343	57.147	139	41.69	310	69.65	41	41.67	224	7.447	153	22.19	247
19	65.160	51	63.65	344	57.286	92	44.79	310	70.06	30	43.91	240	7.600	114	24.66	246
28*)	^{27}65.211	23	67.09	335	^{30}57.378	42	47.89	304	^{1}70.36	18	46.31	249	^{2}7.714	72	27.12	239
Juli 8	65.188	96	70.44	319	57.420	9	50.93	289	70.54	5	48.80	251	7.786	29	29.51	227
18	65.092	166	73.63	295	57.411	59	53.82	267	70.59	8	51.31	244	7.815	16	31.78	208
28	64.926	231	76.58	265	57.352	108	56.49	241	70.51	19	53.75	231	7.799	59	33.86	186
Aug. 7	64.695	291	79.23	228	57.244	152	58.90	209	70.32	32	56.06	209	7.740	98	35.72	161
17	64.404	342	81.51	187	57.092	191	60.99	172	70.00	42	58.15	179	7.642	135	37.33	132
27	64.062	383	83.38	142	56.901	223	62.71	132	69.58	50	59.94	143	7.507	166	38.65	100
Sept. 6	63.679	414	84.80	94	56.678	247	64.03	90	69.08	57	61.37	100	7.341	188	39.65	68
16	63.265	430	85.74	42	56.431	262	64.93	44	68.51	61	62.37	53	7.153	202	40.33	35
26	62.835	435	86.16	10	56.169	265	65.37	1	67.90	62	62.90	2	6.951	207	40.68	1
Okt. 6	62.400	425	86.06	64	55.904	259	65.36	48	67.28	61	62.92	49	6.744	202	40.67	36
16	61.975	400	85.42	117	55.645	243	64.88	95	66.67	57	62.43	98	6.542	188	40.31	71
26	61.575	363	84.25	168	55.402	215	63.93	140	66.10	50	61.45	146	6.354	165	39.60	105
Nov. 5	61.212	313	82.57	216	55.187	179	62.53	183	65.60	40	59.99	188	6.189	133	38.55	139
15	60.899	252	80.41	260	55.008	136	60.70	223	65.20	29	58.11	222	6.056	96	37.16	170
25	60.647	182	77.81	298	54.872	87	58.47	258	64.91	17	55.89	250	5.960	53	35.46	196
Dez. 5	60.465	105	74.83	328	54.785	35	55.89	285	64.74	3	53.39	267	5.907	9	33.50	219
15	60.360	25	71.55	348	54.750	19	53.04	304	64.71	11	50.72	276	5.898	35	31.31	235
25	60.335	55	68.07	356	54.769	72	50.00	314	64.82	24	47.96	276	5.933	80	28.96	244
35	60.390		64.51		54.841		46.86		65.06		45.20		6.013		26.52	
Mittl. Ort	61.957		55.71		54.349		36.21		62.20		58.60		4.684		15.37	
sec δ, tg δ	1.929		+1.649		1.282		+0.802		3.149		−2.986		1.067		+0.374	
a, a'	+0.9		+2.0		+2.0		+3.0		+7.0		+3.1		+2.6		+3.7	
b, b'	+0.01		+0.99		+0.01		+0.99		−0.03		+0.99		0.00		+0.98	

[1]) Die jährliche Parallaxe (0.″124) ist bereits berücksichtigt.

*) Bei Stern 699), 698) und 703) lies Juni 29.

Scheinbare Sternörter 1940

Tag	704) λ Pavonis AR.		704) λ Pavonis Dekl.		705) β Lyrae AR.		705) β Lyrae Dekl.		707) ο Draconis AR.		707) ο Draconis Dekl.		706) σ Sagittarii AR.		706) σ Sagittarii Dekl.	
1940	$18^h\ 46^m$		$-62°\ 15'$		$18^h\ 47^m$		$+33°\ 17'$		$18^h\ 50^m$		$+59°\ 18'$		$18^h\ 51^m$		$-26°\ 22'$	
	s		"		s		"		s		"		s		"	
Jan. 1	37.52	22	24.26	237	50.599	91	39.61	292	16.638	56	62.04	350	31.735	137	15.31	32
11	37.74	30	21.89	229	50.690	138	36.69	287	16.694	135	58.54	346	31.872	177	14.99	31
21	38.04	38	19.60	214	50.828	178	33.82	270	16.829	210	55.08	329	32.049	211	14.68	30
31	38.42	43	17.46	194	51.006	215	31.12	244	17.039	280	51.79	299	32.260	240	14.38	31
Febr. 10	38.85	49	15.52	172	51.221	247	28.68	207	17.319	340	48.80	258	32.500	265	14.07	33
20	39.34	52	13.80	145	51.468	272	26.61	162	17.659	391	46.22	208	32.765	285	13.74	36
März 1	39.86	56	12.35	116	51.740	293	24.99	111	18.050	430	44.14	149	33.050	299	13.38	39
11	40.42	57	11.19	87	52.033	306	23.88	56	18.480	457	42.65	86	33.349	311	12.99	43
21	40.99	59	10.32	55	52.339	314	23.32	1	18.937	472	41.79	19	33.660	318	12.56	47
31	41.58	59	9.77	24	52.653	316	23.33	57	19.409	473	41.60	46	33.978	321	12.09	50
Apr. 10	42.17	58	9.53	9	52.969	312	23.90	111	19.882	461	42.06	110	34.299	319	11.59	50
20	42.75	56	9.62	42	53.281	300	25.01	159	20.343	438	43.16	168	34.618	314	11.09	49
30	43.31	54	10.04	73	53.581	283	26.60	202	20.781	403	44.84	220	34.932	302	10.60	46
Mai 10	43.85	50	10.77	103	53.864	260	28.62	237	21.184	357	47.04	264	35.234	286	10.14	40
20	44.35	45	11.80	131	54.124	230	30.99	265	21.541	303	49.68	300	35.520	263	9.74	32
30	44.80	39	13.11	157	54.354	196	33.64	283	21.844	240	52.68	325	35.783	234	9.42	22
Juni 9	45.19	33	14.68	179	54.550	155	36.47	293	22.084	172	55.93	341	36.017	200	9.20	11
19	45.52	24	16.47	195	54.705	111	39.40	296	22.256	99	59.34	348	36.217	160	9.09	0
29	45.76	17	18.42	207	54.816	65	42.36	290	22.355	24	62.82	345	36.377	117	9.09	11
Juli 8	3 45.93	8	20.49	212	4 54.881	17	45.26	278	4 22.379	51	66.27	334	5 36.494	70	9.20	22
18	46.01	1	22.61	212	54.898	32	48.04	259	22.328	125	69.61	315	36.564	21	9.42	30
28	46.00	10	24.73	203	54.866	79	50.63	234	22.203	196	72.76	290	36.585	26	9.72	36
Aug. 7	45.90	18	26.76	187	54.787	123	52.97	205	22.007	260	75.66	257	36.559	72	10.08	41
17	45.72	26	28.63	164	54.664	162	55.02	172	21.747	317	78.23	220	36.487	113	10.49	41
27	45.46	31	30.27	136	54.502	194	56.74	135	21.430	366	80.43	177	36.374	148	10.90	39
Sept. 6	45.15	37	31.63	100	54.308	220	58.09	95	21.064	403	82.20	131	36.226	176	11.29	35
16	44.78	40	32.63	60	54.088	236	59.04	54	20.661	428	83.51	81	36.050	194	11.64	27
26	44.38	41	33.23	18	53.852	242	59.58	11	20.233	439	84.32	29	35.856	200	11.91	18
Okt. 6	43.97	41	33.41	27	53.610	238	59.69	34	19.794	437	84.61	25	35.656	197	12.09	9
16	43.56	38	33.14	71	53.372	225	59.35	77	19.357	420	84.36	79	35.459	181	12.18	2
26	43.18	33	32.43	113	53.147	201	58.58	120	18.937	390	83.57	131	35.278	155	12.16	10
Nov. 5	42.85	27	31.30	150	52.946	169	57.38	162	18.547	347	82.26	183	35.123	121	12.06	19
15	42.58	19	29.80	182	52.777	130	55.76	200	18.200	291	80.43	231	35.002	80	11.87	24
25	42.39	11	27.98	207	52.647	85	53.76	234	17.909	227	78.12	273	34.922	34	11.63	29
Dez. 5	42.28	2	25.91	225	52.562	37	51.42	262	17.682	154	75.39	308	34.888	14	11.34	30
15	42.26	7	23.66	235	52.525	12	48.80	282	17.528	77	72.31	334	34.902	63	11.04	31
25	42.33	17	21.31	237	52.537	61	45.98	293	17.451	4	68.97	350	34.965	109	10.73	30
35	42.50		18.94		52.598		43.05		17.455		65.47		35.074		10.43	
Mittl. Ort	39.78		32.17		51.790		30.87		18.942		52.32		32.723		22.84	
sec δ, tg δ	2.148		−1.901		1.196		+0.657		1.960		+1.685		1.116		−0.496	
a, *a'*	+5.6		+4.1		+2.2		+4.2		+0.9		+4.4		+3.7		+4.5	
b, *b'*	−0.03		+0.98		+0.01		+0.98		+0.02		+0.98		−0.01		+0.97	

Tag	709) ϑ Serpent. *pr* AR.		709) ϑ Serpent. *pr* Dekl.		711) *R* Lyrae AR.		711) *R* Lyrae Dekl.		708) λ Telescopii AR.		708) λ Telescopii Dekl.		713) γ Lyrae AR.		713) γ Lyrae Dekl.	
1940	$18^h\ 53^m$		$+4°\ 7'$		$18^h\ 53^m$		$+43°\ 51'$		$18^h\ 53^m$		$-53°\ 0'$		$18^h\ 56^m$		$+32°\ 36'$	
	s		"		s		"		s		"		s		"	
Jan. 1	13.278	109	34.92	154	29.021	74	67.55	323	38.332	177	61.94	192	40.699	82	31.19	288
11	13.387	145	33.38	151	29.095	129	64.32	318	38.509	238	60.02	187	40.781	127	28.31	283
21	13.532	177	31.87	141	29.224	178	61.14	302	38.747	293	58.15	177	40.908	169	25.48	269
31	13.709	205	30.46	125	29.402	225	58.12	274	39.040	339	56.38	163	41.077	206	22.79	244
Febr. 10	13.914	228	29.21	103	29.627	263	55.38	236	39.379	377	54.75	147	41.283	238	20.35	208
20	14.142	246	28.18	76	29.890	297	53.02	188	39.756	409	53.28	128	41.521	265	18.27	165
März 1	14.388	262	27.42	44	30.187	323	51.14	134	40.165	433	52.00	108	41.786	286	16.62	116
11	14.650	273	26.98	11	30.510	341	49.80	74	40.598	450	50.92	86	42.072	301	15.46	61
21	14.923	280	26.87	24	30.851	351	49.06	11	41.048	460	50.06	63	42.373	311	14.85	4
31	15.203	283	27.11	57	31.202	355	48.95	50	41.508	464	49.43	39	42.684	315	14.81	51
Apr. 10	15.486	282	27.68	88	31.557	350	49.45	109	41.972	461	49.04	14	42.999	312	15.32	105
20	15.768	276	28.56	116	31.907	336	50.54	163	42.433	451	48.90	11	43.311	303	16.37	154
30	16.044	266	29.72	139	32.243	315	52.17	211	42.884	432	49.01	37	43.614	287	17.91	196
Mai 10	16.310	250	31.11	157	32.558	287	54.28	252	43.316	406	49.38	62	43.901	266	19.87	232
20	16.560	228	32.68	169	32.845	252	56.80	283	43.722	371	50.00	87	44.167	237	22.19	261
30	16.788	201	34.37	175	33.097	210	59.63	306	44.093	328	50.87	110	44.404	203	24.80	280
Juni 9	16.989	170	36.12	177	33.307	163	62.69	321	44.421	276	51.97	131	44.607	165	27.60	292
19	17.159	135	37.89	172	33.470	113	65.90	325	44.697	218	53.28	147	44.772	121	30.52	294
29	17.294	94	39.61	164	33.583	59	69.15	322	44.915	155	54.75	160	6 44.893	75	33.46	291
Juli 8	5 17.388	53	41.25	152	5 33.642	3	72.37	310	5 45.070	86	56.35	168	44.968	27	36.37	279
18	17.441	10	42.77	137	33.645	51	75.47	292	45.156	16	58.03	171	44.995	21	39.16	261
28	17.451	32	44.14	120	33.594	104	78.39	267	45.172	53	59.74	167	44.974	68	41.77	237
Aug. 7	17.419	73	45.34	101	33.490	154	81.06	237	45.119	119	61.41	157	44.906	113	44.14	209
17	17.346	108	46.35	81	33.336	198	83.43	200	45.000	180	62.98	142	44.793	154	46.23	177
27	17.238	140	47.16	60	33.138	235	85.43	161	44.820	232	64.40	119	44.639	187	48.00	141
Sept. 6	17.098	164	47.76	39	32.903	264	87.04	118	44.588	272	65.59	92	44.452	213	49.41	102
16	16.934	179	48.15	17	32.639	283	88.22	71	44.316	299	66.51	61	44.239	230	50.43	61
26	16.755	185	48.32	3	32.356	292	88.93	24	44.017	310	67.12	26	44.009	239	51.04	19
Okt. 6	16.570	182	48.29	25	32.064	289	89.17	26	43.707	307	67.38	11	43.770	236	51.23	25
16	16.388	168	48.04	46	31.775	276	88.91	75	43.400	286	67.27	47	43.534	224	50.98	68
26	16.220	147	47.58	67	31.499	251	88.16	123	43.114	252	66.80	82	43.310	203	50.30	112
Nov. 5	16.073	117	46.91	87	31.248	218	86.93	171	42.862	203	65.98	114	43.107	171	49.18	153
15	15.956	81	46.04	106	31.030	176	85.22	215	42.659	144	64.84	141	42.936	134	47.65	191
25	15.875	42	44.98	123	30.854	127	83.07	253	42.515	77	63.43	163	42.802	91	45.74	226
Dez. 5	15.833	0	43.75	139	30.727	74	80.54	285	42.438	6	61.80	178	42.711	45	43.48	254
15	15.833	43	42.36	149	30.653	19	77.69	308	42.432	65	60.02	187	42.666	4	40.94	276
25	15.876	83	40.87	155	30.634	39	74.61	323	42.497	134	58.15	191	42.670	52	38.18	287
35	15.959		39.32		30.673		71.38		42.631		56.24		42.722		35.31	
Mittl. Ort	14.153		26.82		30.480		58.13		40.006		69.28		41.856		22.00	
sec δ, tg δ	1.003		+0.072		1.387		+0.961		1.662		−1.328		1.187		+0.640	
a, *a'*	+3.0		+4.6		+1.8		+4.6		+4.8		+4.7		+2.2		+4.9	
b, *b'*	0.00		+0.97		+0.01		+0.97		−0.02		+0.97		+0.01		+0.97	

Scheinbare Sternörter 1940

Tag		716) ζ Aquilae AR.		716) ζ Aquilae Dekl.		717) λ Aquilae AR.		717) λ Aquilae Dekl.	
1940		$19^h\ 2^m$		$+13°\ 46'$		$19^h\ 3^m$		$-4°\ 58'$	
Jan.	1	38.161	93	31.12	204	2.985	106	18.73	98
	11	38.254	130	29.08	201	3.091	142	19.71	96
	21	38.384	164	27.07	189	3.233	174	20.67	89
	31	38.548	194	25.18	170	3.407	202	21.56	77
Febr.	10	38.742	219	23.48	143	3.609	226	22.33	61
	20	38.961	242	22.05	110	3.835	245	22.94	40
März	1	39.203	259	20.95	72	4.080	261	23.34	17
	11	39.462	272	20.23	30	4.341	272	23.51	8
	21	39.734	281	19.93	12	4.613	282	23.43	34
	31	40.015	286	20.05	54	4.895	287	23.09	59
Apr.	10	40.301	286	20.59	95	5.182	287	22.50	81
	20	40.587	281	21.54	131	5.469	283	21.69	101
	30	40.868	270	22.85	161	5.752	274	20.68	116
Mai	10	41.138	254	24.46	186	6.026	260	19.52	127
	20	41.392	233	26.32	205	6.286	240	18.25	134
	30	41.625	206	28.37	217	6.526	216	16.91	135
Juni	9	41.831	173	30.54	222	6.742	185	15.56	133
	19	42.004	137	32.76	222	6.927	149	14.23	126
	29	42.141	96	34.98	214	7.076	110	12.97	117
Juli	8	7 42.237	54	37.12	203	7 7.186	68	11.80	105
	18	42.291	10	39.15	187	7.254	24	10.75	91
	28	42.301	34	41.02	168	7.278	19	9.84	76
Aug.	7	42.267	74	42.70	145	7.259	60	9.08	61
	17	42.193	112	44.15	119	7.199	98	8.47	45
	27	42.081	144	45.34	93	7.101	131	8.02	31
Sept.	6	41.937	169	46.27	65	6.970	156	7.71	17
	16	41.768	186	46.92	37	6.814	174	7.54	4
	26	41.582	194	47.29	7	6.640	181	7.50	10
Okt.	6	41.388	192	47.36	23	6.459	179	7.60	21
	16	41.196	180	47.13	53	6.280	168	7.81	34
	26	41.016	160	46.60	82	6.112	146	8.15	46
Nov.	5	40.856	133	45.78	110	5.966	118	8.61	57
	15	40.723	98	44.68	137	5.848	83	9.18	69
	25	40.625	59	43.31	161	5.765	43	9.87	79
Dez.	5	40.566	18	41.70	180	5.722	2	10.66	89
	15	40.548	25	39.90	196	5.720	40	11.55	97
	25	40.573	66	37.94	205	5.760	81	12.52	100
	35	40.639		35.89		5.841		13.52	
Mittl. Ort		39.074		22.50		3.847		26.55	
sec δ, tg δ		1.030		+0.245		1.004		−0.087	
a, a'		+2.8		+5.4		+3.2		+5.4	
b, b'		0.00		+0.96		0.00		+0.96	

Tag		718) α Coron. austr. AR.		718) α Coron. austr. Dekl.		720) π Sagittarii AR.		720) π Sagittarii Dekl.	
1940		$19^h\ 5^m$		$-37°\ 59'$		$19^h\ 6^m$		$-21°\ 6'$	
Jan.	1	22.341	134	52.46	108	10.828	116	67.46	3
	11	22.475	180	51.38	108	10.944	154	67.43	4
	21	22.655	221	50.30	104	11.098	189	67.39	7
	31	22.876	256	49.26	100	11.287	218	67.32	11
Febr.	10	23.132	286	48.26	96	11.505	243	67.21	18
	20	23.418	311	47.30	90	11.748	263	67.03	25
März	1	23.729	330	46.40	84	12.011	280	66.78	34
	11	24.059	345	45.56	76	12.291	293	66.44	44
	21	24.404	356	44.80	68	12.584	302	66.00	54
	31	24.760	361	44.12	59	12.886	308	65.46	61
Apr.	10	25.121	362	43.53	48	13.194	309	64.85	68
	20	25.483	357	43.05	35	13.503	306	64.17	71
	30	25.840	347	42.70	21	13.809	297	63.46	72
Mai	10	26.187	330	42.49	5	14.106	283	62.74	70
	20	26.517	305	42.44	11	14.389	263	62.04	65
	30	26.822	275	42.55	29	14.652	237	61.39	57
Juni	9	27.097	237	42.84	45	14.889	205	60.82	48
	19	27.334	193	43.29	61	15.094	168	60.34	36
	29	27.527	144	43.90	75	15.262	126	59.98	24
Juli	8	8 27.671	92	44.65	87	8 15.388	81	59.74	12
	18	27.763	37	45.52	94	15.469	35	59.62	0
	28	27.800	18	46.46	99	15.504	13	59.62	9
Aug.	7	27.782	71	47.45	98	15.491	57	59.71	17
	17	27.711	119	48.43	93	15.434	98	59.88	23
	27	27.592	161	49.36	84	15.336	134	60.11	27
Sept.	6	27.431	195	50.20	70	15.202	163	60.38	27
	16	27.236	217	50.90	53	15.039	181	60.65	25
	26	27.019	229	51.43	33	14.858	191	60.90	23
Okt.	6	26.790	227	51.76	11	14.667	190	61.13	18
	16	26.563	213	51.87	11	14.477	177	61.31	14
	26	26.350	188	51.76	33	14.300	155	61.45	8
Nov.	5	26.162	152	51.43	54	14.145	124	61.53	5
	15	26.010	107	50.89	71	14.021	87	61.58	2
	25	25.903	58	50.18	84	13.934	45	61.60	0
Dez.	5	25.845	4	49.34	95	13.889	0	61.60	0
	15	25.841	50	48.39	102	13.889	46	61.60	1
	25	25.891	102	47.37	105	13.935	89	61.59	0
	35	25.993		46.32		14.024		61.59	
Mittl. Ort		23.534		59.21		11.770		74.64	
sec δ, tg δ		1.269		−0.781		1.072		−0.386	
a, a'		+4.1		+5.6		+3.6		+5.7	
b, b'		−0.01		+0.96		−0.01		+0.96	

Tag		723) δ Draconis AR.		723) δ Draconis Dekl.		724) ϑ Lyrae AR.		724) ϑ Lyrae Dekl.		725) ω Aquilae AR.		725) ω Aquilae Dekl.		726) ϰ Cygni AR.		726) ϰ Cygni Dekl.	
1940		19h 12m		+67° 33′		19h 14m		+38° 1′		19h 14m		+11° 29′		19h 15m		+53° 15′	
Jan.	1	29.62	2	33.55	347	15.815	56	43.37	301	59.058	82	17.97	188	41.171	26	36.87	335
	11	29.60	9	30.08	350	15.871	104	40.36	300	59.140	119	16.09	186	41.197	93	33.52	337
	21	29.69	19	26.58	340	15.975	150	37.36	288	59.259	154	14.23	175	41.290	157	30.15	326
	31	29.88	29	23.18	316	16.125	193	34.48	265	59.413	183	12.48	158	41.447	217	26.89	302
Febr.	10	30.17	39	20.02	280	16.318	229	31.83	231	59.596	210	10.90	134	41.664	270	23.87	266
	20	30.56	46	17.22	234	16.547	262	29.52	188	59.806	233	9.56	103	41.934	318	21.21	221
März	1	31.02	52	14.88	179	16.809	288	27.64	138	60.039	251	8.53	66	42.252	356	19.00	166
	11	31.54	58	13.09	118	17.097	310	26.26	82	60.290	266	7.87	28	42.608	385	17.34	106
	21	32.12	60	11.91	52	17.407	324	25.44	24	60.556	278	7.59	13	42.993	404	16.28	43
	31	32.72	61	11.39	15	17.731	331	25.20	35	60.834	284	7.72	54	43.397	414	15.85	21
Apr.	10	33.33	61	11.54	79	18.062	331	25.55	92	61.118	286	8.26	92	43.811	412	16.06	85
	20	33.94	58	12.33	140	18.393	325	26.47	145	61.404	283	9.18	126	44.223	401	16.91	144
	30	34.52	54	13.73	196	18.718	310	27.92	193	61.687	275	10.44	155	44.624	378	18.35	198
Mai	10	35.06	48	15.69	245	19.028	289	29.85	232	61.962	261	11.99	180	45.002	347	20.33	244
	20	35.54	42	18.14	284	19.317	260	32.17	265	62.223	241	13.79	198	45.349	306	22.77	282
	30	35.96	33	20.98	316	19.577	225	34.82	290	62.464	216	15.77	209	45.655	258	25.59	311
Juni	9	36.29	24	24.14	337	19.802	185	37.72	305	62.680	185	17.86	214	45.913	202	28.70	332
	19	36.53	15	27.51	350	19.987	139	40.77	312	62.865	149	20.00	214	46.115	142	32.02	342
	29	36.68	4	31.01	354	20.126	91	43.89	311	63.014	109	22.14	207	46.257	79	35.44	344
Juli	9	36.72	5	34.55	348	20.217	39	47.00	302	63.123	67	24.21	196	46.336	13	38.88	338
	18	[10] 36.67	15	38.03	334	[10] 20.256	13	50.02	287	[11] 63.190	24	26.17	180	[11] 46.349	53	42.26	323
	28	36.52	24	41.37	313	20.243	63	52.89	265	63.214	20	27.97	161	46.296	117	45.49	301
Aug.	7	36.28	34	44.50	285	20.180	112	55.54	237	63.194	62	29.58	140	46.179	177	48.50	273
	17	35.94	41	47.35	250	20.068	155	57.91	205	63.132	101	30.98	117	46.002	231	51.23	239
	27	35.53	48	49.85	212	19.913	193	59.96	169	63.031	134	32.15	91	45.771	277	53.62	200
Sept.	6	35.05	53	51.97	167	19.720	224	61.65	128	62.897	160	33.06	65	45.494	315	55.62	157
	16	34.52	57	53.64	118	19.496	245	62.93	86	62.737	179	33.71	38	45.179	343	57.19	109
	26	33.95	60	54.82	68	19.251	256	63.79	42	62.558	189	34.09	10	44.836	358	58.28	59
Okt.	6	33.35	60	55.50	14	18.995	258	64.21	5	62.369	188	34.19	18	44.478	361	58.87	8
	16	32.75	59	55.64	42	18.737	248	64.16	52	62.181	179	34.01	45	44.117	353	58.95	45
	26	32.16	57	55.22	96	18.489	230	63.64	98	62.002	162	33.56	72	43.764	331	58.50	98
Nov.	5	31.59	52	54.26	151	18.259	202	62.66	144	61.840	135	32.84	99	43.433	299	57.52	151
	15	31.07	45	52.75	202	18.057	165	61.22	186	61.705	102	31.85	123	43.134	256	56.01	199
	25	30.62	38	50.73	249	17.892	123	59.36	224	61.603	65	30.62	146	42.878	205	54.02	243
Dez.	5	30.24	30	48.24	289	17.769	76	57.12	258	61.538	26	29.16	165	42.673	146	51.59	282
	15	29.94	19	45.35	321	17.693	27	54.54	282	61.512	16	27.51	180	42.527	83	48.77	312
	25	29.75	9	42.14	343	17.666	24	51.72	299	61.528	57	25.71	189	42.444	17	45.65	331
	35	29.66		38.71		17.690		48.73		61.585		23.82		42.427		42.34	
Mittl. Ort		32.70		21.69		17.039		32.97		59.939		9.22		42.934		25.49	
sec δ, tg δ		2.619		+2.421		1.269		+0.782		1.020		+0.203		1.672		+1.340	
a, a'		0.0		+6.2		+2.1		+6.4		+2.8		+6.4		+1.4		+6.5	
b, b'		+0.05		+0.95		+0.02		+0.95		0.00		+0.95		+0.03		+0.95	

Scheinbare Sternörter 1940

Tag	729) τ Draconis AR.		729) τ Draconis Dekl.		728) α Sagittarii AR.		728) α Sagittarii Dekl.		730) δ Aquilae AR.		730) δ Aquilae Dekl.		733) ι Cygni AR.		733) ι Cygni Dekl.	
1940	$19^h 16^m$		$+73° 14'$		$19^h 19^m$		$-40° 43'$		$19^h 22^m$		$+2° 59'$		$19^h 28^m$		$+51° 35'$	
	s		"		s		"		s		"		s		"	
Jan. 1	38.83	8	53.47	345	42.644	119	44.45	128	27.504	82	45.67	139	9.950	12	76.52	329
11	38.75	7	50.02	348	42.763	166	43.17	130	27.586	118	44.28	137	9.962	75	73.23	332
21	38.82	21	46.54	340	42.929	210	41.87	128	27.704	151	42.91	128	10.037	136	69.91	324
31	39.03	34	43.14	319	43.139	249	40.59	125	27.855	181	41.63	114	10.173	194	66.67	302
Febr. 10	39.37	47	39.95	285	43.388	281	39.34	119	28.036	206	40.49	94	10.367	248	63.65	271
20	39.84	58	37.10	240	43.669	309	38.15	113	28.242	228	39.55	68	10.615	294	60.94	227
März 1	40.42	67	34.70	186	43.978	332	37.02	106	28.470	248	38.87	39	10.909	334	58.67	174
11	41.09	73	32.84	126	44.310	350	35.96	96	28.718	262	38.48	7	11.243	365	56.93	116
21	41.82	78	31.58	61	44.660	364	35.00	86	28.980	275	38.41	26	11.608	388	55.77	54
31	42.60	79	30.97	4	45.024	373	34.14	74	29.255	282	38.67	59	11.996	399	55.23	10
Apr. 10	43.39	78	31.01	70	45.397	375	33.40	61	29.537	286	39.26	89	12.395	402	55.33	72
20	44.17	75	31.71	131	45.772	374	32.79	44	29.823	285	40.15	116	12.797	395	56.05	132
30	44.92	70	33.02	187	46.146	365	32.35	28	30.108	278	41.31	139	13.192	376	57.37	187
Mai 10	45.62	61	34.89	236	46.511	349	32.07	9	30.386	266	42.70	157	13.568	350	59.24	234
20	46.23	52	37.25	277	46.860	327	31.98	11	30.652	248	44.27	170	13.918	313	61.58	273
30	46.75	42	40.02	310	47.187	296	32.09	31	30.900	225	45.97	176	14.231	268	64.31	305
Juni 9	47.17	30	43.12	333	47.483	258	32.40	51	31.125	195	47.73	177	14.499	217	67.36	326
19	47.47	16	46.45	347	47.741	215	32.91	69	31.320	161	49.50	174	14.716	160	70.62	340
29	47.63	4	49.92	352	47.956	164	33.60	86	31.481	123	51.24	166	14.876	99	74.02	343
Juli 9	47.67	9	53.44	348	48.120	110	34.46	99	31.604	81	52.90	155	14.975	36	77.45	339
18	47.58	22	56.92	336	48.230	54	35.45	109	31.685	37	54.45	139	15.011	29	80.84	326
28	47.36	34	60.28	317	48.284	4	36.54	115	31.722	7	55.84	122	14.982	91	84.10	307
Aug. 7	47.02	45	63.45	290	48.280	60	37.69	116	31.715	48	57.06	103	14.891	150	87.17	280
17	46.57	56	66.35	257	48.220	111	38.85	111	31.667	88	58.09	84	14.741	205	89.97	248
27	46.01	65	68.92	219	48.109	158	39.96	101	31.579	121	58.93	63	14.536	252	92.45	211
Sept. 6	45.36	72	71.11	176	47.951	194	40.97	87	31.458	149	59.56	42	14.284	291	94.56	168
16	44.64	77	72.87	128	47.757	222	41.84	69	31.309	169	59.98	22	13.993	319	96.24	123
26	43.87	81	74.15	78	47.535	236	42.53	46	31.140	179	60.20	2	13.674	337	97.47	74
Okt. 6	43.06	82	74.93	25	47.299	238	42.99	22	30.961	181	60.22	18	13.337	344	98.21	22
16	42.24	80	75.18	30	47.061	227	43.21	3	30.780	172	60.04	38	12.993	337	98.43	29
26	41.44	78	74.88	86	46.834	203	43.18	29	30.608	155	59.66	58	12.656	320	98.14	83
Nov. 5	40.66	72	74.02	140	46.631	170	42.89	53	30.453	129	59.08	76	12.336	292	97.31	135
15	39.94	65	72.62	192	46.461	126	42.36	74	30.324	98	58.32	93	12.044	252	95.96	184
25	39.29	55	70.70	240	46.335	77	41.62	93	30.226	62	57.39	110	11.792	205	94.12	229
Dez. 5	38.74	43	68.30	281	46.258	23	40.69	107	30.164	23	56.29	124	11.587	151	91.83	269
15	38.31	31	65.49	315	46.235	32	39.62	117	30.141	17	55.05	134	11.436	92	89.14	301
25	38.00	18	62.34	339	46.267	85	38.45	123	30.158	57	53.71	140	11.344	29	86.13	323
35	37.82		58.95		46.352		37.22		30.215		52.31		11.315		82.90	
Mittl. Ort	43.02		41.02		43.919		50.35		28.349		37.41		11.563		64.38	
sec δ, tg δ	3.469		+3.322		1.320		−0.861		1.001		+0.052		1.610		+1.262	
a, *a'*	−1.1		+6.6		+4.2		+6.8		+3.0		+7.1		+1.5		+7.5	
b, *b'*	+0.07		+0.94		−0.02		+0.94		0.00		+0.94		+0.03		+0.93	

Tag	732) β Cygni *pr* AR.		Dekl.		736) 52 Sagittarii AR.		Dekl.	
1940	$19^h\ 28^m$		$+27°49'$		$19^h\ 33^m$		$-25°\ 0'$	
	s		"		s		"	
Jan. 1	17.024	53	67.22	260	2.470	90	57.56	34
11	17.077	95	64.62	260	2.560	130	57.22	39
21	17.172	134	62.02	250	2.690	166	56.83	41
31	17.306	172	59.52	231	2.856	199	56.42	47
Febr. 10	17.478	204	57.21	202	3.055	226	55.95	52
20	17.682	233	55.19	164	3.281	251	55.43	58
März 1	17.915	258	53.55	119	3.532	271	54.85	65
11	18.173	277	52.36	71	3.803	289	54.20	72
21	18.450	293	51.65	18	4.092	303	53.48	77
31	18.743	303	51.47	35	4.395	313	52.71	82
Apr. 10	19.046	306	51.82	85	4.708	319	51.89	84
20	19.352	304	52.67	133	5.027	320	51.05	84
30	19.656	295	54.00	176	5.347	315	50.21	80
Mai 10	19.951	280	55.76	211	5.662	304	49.41	74
20	20.231	258	57.87	241	5.966	288	48.67	65
30	20.489	229	60.28	262	6.254	264	48.02	53
Juni 9	20.718	194	62.90	275	6.518	233	47.49	40
19	20.912	156	65.65	282	6.751	198	47.09	26
29	21.068	113	68.47	280	6.949	156	46.83	10
Juli 9	[14] 21.181	66	71.27	271	[15] 7.105	110	46.73	5
18	21.247	19	73.98	258	7.215	62	46.78	19
28	21.266	28	76.56	237	7.277	14	46.97	30
Aug. 7	21.238	74	78.93	213	7.291	34	47.27	40
17	21.164	115	81.06	184	7.257	80	47.67	45
27	21.049	152	82.90	152	7.177	120	48.12	49
Sept. 6	20.897	182	84.42	116	7.057	152	48.61	49
16	20.715	204	85.58	80	6.905	177	49.10	45
26	20.511	216	86.38	41	6.728	191	49.55	39
Okt. 6	20.295	219	86.79	1	6.537	194	49.94	31
16	20.076	212	86.80	40	6.343	187	50.25	21
26	19.864	196	86.40	80	6.156	169	50.46	12
Nov. 5	19.668	172	85.60	119	5.987	142	50.58	2
15	19.496	141	84.41	157	5.845	108	50.60	7
25	19.355	104	82.84	190	5.737	68	50.53	14
Dez. 5	19.251	62	80.94	220	5.669	25	50.39	21
15	19.189	19	78.74	243	5.644	19	50.18	25
25	19.170	24	76.31	257	5.663	63	49.93	29
35	19.194		73.74		5.726		49.64	
Mittl. Ort	18.019		56.90		3.453		63.62	
sec δ, tg δ	1.131		+0.528		1.104		−0.467	
a, *a'*	+2.4		+7.5		+3.6		+7.9	
b, *b'*	+0.01		+0.93		−0.01		+0.92	

Tag	738) ϑ Cygni AR.		Dekl.		742) δ Cygni AR.		Dekl.	
1940	$19^h\ 34^m$		$+50°\ 4'$		$19^h\ 43^m$		$+44°58'$	
	s		"		s		"	
Jan. 1	48.370	6	65.22	323	4.637	8	73.00	310
11	48.376	66	61.99	327	4.645	62	69.90	315
21	48.442	126	58.72	321	4.707	114	66.75	308
31	48.568	182	55.51	301	4.821	165	63.67	291
Febr. 10	48.750	234	52.50	270	4.986	211	60.76	262
20	48.984	280	49.80	228	5.197	253	58.14	221
März 1	49.264	319	47.52	177	5.450	290	55.93	173
11	49.583	351	45.75	120	5.740	319	54.20	118
21	49.934	374	44.55	58	6.059	342	53.02	59
31	50.308	388	43.97	5	6.401	357	52.43	3
Apr. 10	50.696	392	44.02	68	6.758	363	52.46	63
20	51.088	387	44.70	127	7.121	361	53.09	121
30	51.475	372	45.97	181	7.482	351	54.30	174
Mai 10	51.847	347	47.78	228	7.833	330	56.04	220
20	52.194	313	50.06	269	8.163	303	58.24	259
30	52.507	271	52.75	301	8.466	267	60.83	291
Juni 9	52.778	223	55.76	323	8.733	224	63.74	313
19	53.001	168	58.99	336	8.957	176	66.87	327
29	53.169	110	62.35	342	9.133	123	70.14	332
Juli 9	[16] 53.279	48	65.77	338	[18] 9.256	67	73.46	329
18	53.327	14	69.15	327	9.323	9	76.75	318
28	53.313	76	72.42	308	9.332	48	79.93	300
Aug. 7	53.237	134	75.50	283	9.284	102	82.93	276
17	53.103	188	78.33	251	9.182	153	85.69	246
27	52.915	234	80.84	215	9.029	198	88.15	211
Sept. 6	52.681	274	82.99	174	8.831	234	90.26	172
16	52.407	303	84.73	128	8.597	263	91.98	128
26	52.104	321	86.01	81	8.334	282	93.26	82
Okt. 6	51.783	329	86.82	30	8.052	289	94.08	34
16	51.454	324	87.12	22	7.763	286	94.42	16
26	51.130	309	86.90	74	7.477	273	94.26	66
Nov. 5	50.821	282	86.16	126	7.204	250	93.60	117
15	50.539	245	84.90	176	6.954	217	92.43	164
25	50.294	201	83.14	221	6.737	176	90.79	208
Dez. 5	50.093	149	80.93	261	6.561	131	88.71	248
15	49.944	93	78.32	293	6.430	81	86.23	280
25	49.851	34	75.39	317	6.349	27	83.43	302
35	49.817		72.22		6.322		80.41	
Mittl. Ort	49.880		52.76		5.924		60.46	
sec δ, tg δ	1.558		+1.195		1.414		+0.999	
a, *a'*	+1.6		+8.1		+1.9		+8.7	
b, *b'*	+0.03		+0.92		+0.03		+0.90	

Scheinbare Sternörter 1940

Tag	741) γ Aquilae AR.	Diff.	741) γ Aquilae Dekl.	Diff.	743) δ Sagittae AR.	Diff.	743) δ Sagittae Dekl.	Diff.
1940	$19^h\ 43^m$ (s)		$+10°\ 27'$ (″)		$19^h\ 44^m$ (s)		$+18°\ 23'$ (″)	
Jan. 1	23.563	55	65.93	174	41.817	47	15.98	213
11	23.618	92	64.19	174	41.864	84	13.85	214
21	23.710	126	62.45	165	41.948	121	11.71	206
31	23.836	158	60.80	150	42.069	155	9.65	189
Febr. 10	23.994	186	59.30	128	42.224	185	7.76	165
20	24.180	212	58.02	99	42.409	212	6.11	133
März 1	24.392	234	57.03	66	42.621	237	4.78	95
11	24.626	253	56.37	29	42.858	257	3.83	52
21	24.879	268	56.08	11	43.115	274	3.31	7
31	25.147	280	56.19	49	43.389	285	3.24	38
Apr. 10	25.427	287	56.68	87	43.674	293	3.62	83
20	25.714	289	57.55	121	43.967	294	4.45	123
30	26.003	285	58.76	152	44.261	290	5.68	160
Mai 10	26.288	274	60.28	176	44.551	278	7.28	191
20	26.562	259	62.04	194	44.829	262	9.19	216
30	26.821	236	63.98	207	45.091	238	11.35	232
Juni 9	27.057	209	66.05	214	45.329	208	13.67	244
19	27.266	175	68.19	213	45.537	173	16.11	247
29	27.441	136	70.32	208	45.710	134	18.58	244
Juli 9	27.577	94	72.40	198	45.844	90	21.02	237
18*)	18 27.671	51	74.38	184	18 45.934	45	23.39	222
28	27.722	6	76.22	166	45.979	0	25.61	204
Aug. 7	27.728	37	77.88	145	45.979	44	27.65	182
17	27.691	78	79.33	122	45.935	85	29.47	157
27	27.613	114	80.55	98	45.850	122	31.04	129
Sept. 6	27.499	143	81.53	72	45.728	153	32.33	100
16	27.356	166	82.25	46	45.575	176	33.33	68
26	27.190	180	82.71	20	45.399	190	34.01	36
Okt. 6	27.010	184	82.91	6	45.209	195	34.37	3
16	26.826	179	82.85	33	45.014	191	34.40	30
26	26.647	166	82.52	59	44.823	177	34.10	64
Nov. 5	26.481	145	81.93	85	44.646	157	33.46	95
15	26.336	116	81.08	109	44.489	128	32.51	126
25	26.220	83	79.99	130	44.361	95	31.25	155
Dez. 5	26.137	47	78.69	150	44.266	58	29.70	179
15	26.090	8	77.19	164	44.208	19	27.91	198
25	26.082	31	75.55	174	44.189	21	25.93	211
35	26.113		73.81		44.210		23.82	
Mittl. Ort	24.385		56.85		42.674		6.04	
sec δ, tg δ	1.017		+0.185		1.054		+0.332	
a, a'	+2.9		+8.7		+2.7		+8.8	
b, b'	+0.01		+0.90		+0.01		+0.90	

Tag	745) α Aquilae[1] AR.	Diff.	745) α Aquilae[1] Dekl.	Diff.	747) ε Draconis AR.	Diff.	747) ε Draconis Dekl.	Diff.
1940	$19^h\ 47^m$ (s)		$+8°\ 42'$ (″)		$19^h\ 48^m$ (s)		$+70°\ 6'$ (″)	
Jan. 1	50.506	56	39.63	162	20.00	13	69.76	332
11	50.562	92	38.01	161	19.87	2	66.44	344
21	50.654	126	36.40	153	19.85	11	63.00	345
31	50.780	157	34.87	138	19.96	22	59.55	330
Febr. 10	50.937	186	33.49	117	20.18	33	56.25	304
20	51.123	211	32.32	89	20.51	44	53.21	266
März 1	51.334	233	31.43	57	20.95	52	50.55	217
11	51.567	253	30.86	20	21.47	59	48.38	161
21	51.820	268	30.66	17	22.06	64	46.77	99
31	52.088	279	30.83	54	22.70	68	45.78	34
Apr. 10	52.367	287	31.37	90	23.38	68	45.44	31
20	52.654	290	32.27	123	24.06	67	45.75	94
30	52.944	285	33.50	151	24.73	64	46.69	154
Mai 10	53.229	277	35.01	174	25.37	59	48.23	208
20	53.506	261	36.75	192	25.96	52	50.31	254
30	53.767	239	38.67	203	26.48	44	52.85	292
Juni 9	54.006	211	40.70	208	26.92	35	55.77	322
19	54.217	178	42.78	208	27.27	25	58.99	343
29	54.395	140	44.86	201	27.52	14	62.42	354
Juli 9	54.535	99	46.87	191	27.66	3	65.96	357
18*)	19 54.634	54	48.78	177	19 27.69	8	69.53	352
28	54.688	11	50.55	158	27.61	20	73.05	338
Aug. 7	54.699	33	52.13	137	27.41	29	76.43	317
17	54.666	73	53.50	116	27.12	39	79.60	289
27	54.593	110	54.66	91	26.73	48	82.49	255
Sept. 6	54.483	140	55.57	67	26.25	54	85.04	216
16	54.343	162	56.24	43	25.71	61	87.20	172
26	54.181	176	56.67	17	25.10	64	88.92	123
Okt. 6	54.005	181	56.84	8	24.46	66	90.15	70
16	53.824	176	56.76	33	23.80	67	90.85	16
26	53.648	164	56.43	57	23.13	66	91.01	40
Nov. 5	53.484	142	55.86	80	22.47	62	90.61	97
15	53.342	114	55.06	102	21.85	58	89.64	152
25	53.228	81	54.04	123	21.27	50	88.12	204
Dez. 5	53.147	45	52.81	140	20.77	41	86.08	251
15	53.102	7	51.41	154	20.36	32	83.57	291
25	53.095	31	49.87	162	20.04	21	80.66	322
35	53.126		48.25		19.83		77.44	
Mittl. Ort	51.318		30.81		23.10		54.96	
sec δ, tg δ	1.012		+0.153		2.940		+2.765	
a, a'	+2.9		+9.1		−0.2		+9.1	
b, b'	0.00		+0.89		+0.08		+0.89	

[1]) Die jährliche Parallaxe (0.″204) ist bereits berücksichtigt.

*) Bei Stern 745) und 747) lies Juli 19.

Tag	749) β Aquilae AR.		749) β Aquilae Dekl.		748) ε Pavonis AR.		748) ε Pavonis Dekl.	
1940	19h 52m		+6° 15′		19h 53m		−73° 3′	
	s		″		s		″	
Jan. 1	21.119	50	28.79	150	37.12	7	75.82	298
11	21.169	86	27.29	149	37.19	21	72.84	304
21	21.255	120	25.80	142	37.40	33	69.80	301
31	21.375	150	24.38	127	37.73	46	66.79	292
Febr. 10	21.525	180	23.11	108	38.19	56	63.87	276
20	21.705	205	22.03	82	38.75	65	61.11	253
März 1	21.910	228	21.21	51	39.40	73	58.58	225
11	22.138	247	20.70	17	40.13	79	56.33	194
21	22.385	264	20.53	18	40.92	84	54.39	158
31	22.649	277	20.71	53	41.76	88	52.81	120
Apr. 10	22.926	285	21.24	87	42.64	89	51.61	79
20	23.211	289	22.11	118	43.53	90	50.82	37
30	23.500	286	23.29	144	44.43	88	50.45	5
Mai 10	23.786	278	24.73	166	45.31	85	50.50	48
20	24.064	265	26.39	182	46.16	79	50.98	91
30	24.329	243	28.21	191	46.95	72	51.89	129
Juni 9	24.572	217	30.12	196	47.67	64	53.18	166
19	24.789	184	32.08	195	48.31	53	54.84	198
29	24.973	146	34.03	188	48.84	42	56.82	224
Juli 9	25.119	106	35.91	177	49.26	28	59.06	245
19	20 25.225	62	37.68	163	20 49.54	15	61.51	256
28	25.287	18	39.31	145	49.69	0	64.07	261
Aug. 7	25.305	26	40.76	126	49.69	13	66.68	256
17	25.279	67	42.02	104	49.56	27	69.24	243
27	25.212	103	43.06	82	49.29	40	71.67	219
Sept. 6	25.109	135	43.88	59	48.89	50	73.86	188
16	24.974	158	44.47	36	48.39	58	75.74	148
26	24.816	172	44.83	13	47.81	65	77.22	103
Okt. 6	24.644	179	44.96	10	47.16	67	78.25	53
16	24.465	176	44.86	33	46.49	68	78.78	1
26	24.289	163	44.53	54	45.81	65	78.77	56
Nov. 5	24.126	143	43.99	76	45.16	59	78.21	108
15	23.983	116	43.23	96	44.57	51	77.13	157
25	23.867	84	42.27	115	44.06	41	75.56	201
Dez. 5	23.783	49	41.12	130	43.65	28	73.55	238
15	23.734	11	39.82	142	43.37	15	71.17	267
25	23.723	26	38.40	151	43.22	1	68.50	287
35	23.749		36.89		43.21		65.63	
Mittl. Ort	21.913		20.12		41.35		78.32	
sec δ, tg δ	1.006		+0.110		3.434		−3.286	
a, *a′*	+2.9		+9.4		+6.9		+9.5	
b, *b′*	0.00		+0.88		−0.10		+0.88	

Tag	750) ψ Cygni AR.		750) ψ Cygni Dekl.		751) ϑ¹ Sagittarii AR.		751) ϑ¹ Sagittarii Dekl.	
1940	19h 54m		+52° 16′		19h 55m		−35° 26′	
	s		″		s		″	
Jan. 1	3.186	29	58.06	319	48.900	70	20.35	102
11	3.157	34	54.87	328	48.970	113	19.33	110
21	3.191	97	51.59	325	49.083	154	18.23	114
31	3.288	157	48.34	311	49.237	192	17.09	117
Febr. 10	3.445	214	45.23	284	49.429	226	15.92	120
20	3.659	266	42.39	245	49.655	256	14.72	121
März 1	3.925	312	39.94	197	49.911	281	13.51	120
11	4.237	349	37.97	142	50.192	305	12.31	119
21	4.586	379	36.55	81	50.497	323	11.12	114
31	4.965	399	35.74	19	50.820	339	9.98	109
Apr. 10	5.364	409	35.55	44	51.159	348	8.89	101
20	5.773	408	35.99	105	51.507	354	7.88	91
30	6.181	396	37.04	162	51.861	352	6.97	76
Mai 10	6.577	375	38.66	212	52.213	344	6.21	60
20	6.952	343	40.78	256	52.557	329	5.61	42
30	7.295	302	43.34	291	52.886	306	5.19	23
Juni 9	7.597	253	46.25	317	53.192	275	4.96	1
19	7.850	198	49.42	336	53.467	238	4.95	21
29	8.048	138	52.78	344	53.705	194	5.16	40
Juli 9	8.186	75	56.22	345	53.899	144	5.56	59
19	20 8.261	9	59.67	338	21 54.043	92	6.15	75
28	8.270	56	63.05	322	54.135	38	6.90	88
Aug. 7	8.214	117	66.27	300	54.173	16	7.78	97
17	8.097	176	69.27	271	54.157	69	8.75	101
27	7.921	227	71.98	237	54.088	115	9.76	100
Sept. 6	7.694	271	74.35	198	53.973	155	10.76	93
16	7.423	305	76.33	154	53.818	186	11.69	83
26	7.118	329	77.87	107	53.632	206	12.52	69
Okt. 6	6.789	341	78.94	57	53.426	215	13.21	50
16	6.448	341	79.51	4	53.211	213	13.71	30
26	6.107	330	79.55	49	52.998	198	14.01	8
Nov. 5	5.777	308	79.06	102	52.800	174	14.09	13
15	5.469	276	78.04	154	52.626	140	13.96	34
25	5.193	234	76.50	203	52.486	99	13.62	52
Dez. 5	4.959	184	74.47	246	52.387	55	13.10	70
15	4.775	129	72.01	282	52.332	8	12.40	83
25	4.646	69	69.19	309	52.324	40	11.57	93
35	4.577		66.10		52.364		10.64	
Mittl. Ort	4.670		44.23		50.053		24.53	
sec δ, tg δ	1.635		+1.293		1.227		−0.712	
a, *a′*	+1.6		+9.6		+3.9		+9.7	
b, *b′*	+0.04		+0.88		−0.02		+0.88	

Scheinbare Sternörter 1940

Tag	752) γ Sagittae				754) δ Pavonis				756) ϑ Aquilae				759) ϰ Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$19^h\ 56^m$		$+19°\ 19'$		$20^h\ 2^m$		$-66°\ 19'$		$20^h\ 8^m$		$-0°\ 59'$		$20^h\ 10^m$		$+77°\ 31'$	
	s		″		s		″		s		″		s		″	
Jan. 1	4.420	34	51.19	213	48.59	6	72.78	266	11.775	41	55.08	105	52.05	36	70.84	314
11	4.454	73	49.06	215	48.65	15	70.12	276	11.816	76	56.13	102	51.69	18	67.70	333
21	4.527	109	46.91	209	48.80	25	67.36	276	11.892	108	57.15	94	51.51	1	64.37	341
31	4.636	143	44.82	193	49.05	32	64.60	271	12.000	140	58.09	82	51.52	20	60.96	335
Febr. 10	4.779	175	42.89	170	49.37	41	61.89	259	12.140	168	58.91	65	51.72	40	57.61	316
20	4.954	203	41.19	138	49.78	47	59.30	242	12.308	194	59.56	44	52.12	56	54.45	285
März 1	5.157	230	39.81	101	50.25	53	56.88	220	12.502	219	60.00	18	52.68	72	51.60	243
11	5.387	252	38.80	59	50.78	58	54.68	193	12.721	239	60.18	10	53.40	84	49.17	191
21	5.639	270	38.21	13	51.36	62	52.75	164	12.960	258	60.08	39	54.24	94	47.26	134
31	5.909	284	38.08	33	51.98	64	51.11	131	13.218	273	59.69	68	55.18	101	45.92	72
Apr. 10	6.193	293	38.41	77	52.62	66	49.80	96	13.491	284	59.01	94	56.19	104	45.20	7
20	6.486	297	39.18	120	53.28	67	48.84	57	13.775	291	58.07	119	57.23	103	45.13	57
30	6.783	294	40.38	158	53.95	67	48.27	18	14.066	291	56.88	138	58.26	99	45.70	117
Mai 10	7.077	285	41.96	189	54.62	64	48.09	21	14.357	286	55.50	154	59.25	93	46.87	173
20	7.362	268	43.85	216	55.26	61	48.30	60	14.643	274	53.96	165	60.18	83	48.60	224
30	7.630	247	46.01	234	55.87	57	48.90	99	14.917	257	52.31	170	61.01	71	50.84	266
Juni 9	7.877	218	48.35	246	56.44	50	49.89	135	15.174	231	50.61	169	61.72	58	53.50	301
19	8.095	183	50.81	252	56.94	43	51.24	167	15.405	201	48.92	165	62.30	42	56.51	328
29	8.278	144	53.33	250	57.37	35	52.91	195	15.606	165	47.27	156	62.72	25	59.79	345
Juli 9	8.422	101	55.83	243	57.72	25	54.86	217	15.771	125	45.71	144	62.97	9	63.24	355
19	21 8.523	56	58.26	230	23 57.97	15	57.03	232	24 15.896	81	44.27	129	25 63.06	8	66.79	356
28	8.579	10	60.56	213	58.12	5	59.35	240	15.977	37	42.98	111	62.98	26	70.35	348
Aug. 7	8.589	35	62.69	191	58.17	6	61.75	240	16.014	7	41.87	92	62.72	41	73.83	334
17	8.554	77	64.60	166	58.11	16	64.15	231	16.007	49	40.95	73	62.31	57	77.17	312
27	8.477	115	66.26	138	57.95	25	66.46	213	15.958	88	40.22	54	61.74	70	80.29	283
Sept. 6	8.362	146	67.64	109	57.70	33	68.59	187	15.870	121	39.68	35	61.04	82	83.12	248
16	8.216	171	68.73	77	57.37	40	70.46	154	15.749	146	39.33	17	60.22	93	85.60	208
26	8.045	187	69.50	44	56.97	44	72.00	114	15.603	163	39.16	0	59.29	100	87.68	163
Okt. 6	7.858	194	69.94	11	56.53	47	73.14	69	15.440	172	39.16	16	58.29	105	89.31	113
16	7.664	192	70.05	23	56.06	48	73.83	20	15.268	171	39.32	32	57.24	108	90.44	61
26	7.472	180	69.82	57	55.58	45	74.03	30	15.097	161	39.64	46	56.16	107	91.05	4
Nov. 5	7.292	162	69.25	90	55.13	42	73.73	79	14.936	143	40.10	60	55.09	105	91.09	53
15	7.130	135	68.35	121	54.71	35	72.94	125	14.793	118	40.70	73	54.04	98	90.56	110
25	6.995	103	67.14	150	54.36	28	71.69	168	14.675	88	41.43	85	53.06	90	89.46	165
Dez. 5	6.892	68	65.64	176	54.08	20	70.01	203	14.587	55	42.28	94	52.16	78	87.81	216
15	6.824	30	63.88	196	53.88	10	67.98	233	14.532	19	43.22	102	51.38	65	85.65	261
25	6.794	9	61.92	211	53.78	0	65.65	254	14.513	17	44.24	106	50.73	48	83.04	299
35	6.803		59.81		53.78		63.11		14.530		45.30		50.25		80.05	
Mittl. Ort	5.249		40.90		51.53		74.63		12.541		62.77		56.70		53.96	
sec δ, tg δ	1.060		+0.351		2.492		−2.282		1.000		−0.017		4.632		+4.523	
a, *a′*	+2.7		+9.7		+5.7		+10.2		+3.1		+10.6		−2.0		+10.8	
b, *b′*	+0.01		+0.87		−0.08		+ 0.86		0.00		+ 0.85		+0.16		+ 0.84	

Tag		757) 31 o¹ Cygni AR.		757) Dekl.		760) 24 Vulpeculae AR.		760) Dekl.		761) α² Capricorni AR.		761) Dekl.		765) γ Cygni AR.		765) Dekl.	
1940		20h 11m		+46° 33′		20h 14m		+24° 29′		20h 14m		−12° 43′		20h 20m		+40° 3′	
Jan.	1	43.284	33	45.00	299	12.149	10	18.10	228	42.782	41	50.00	34	3.436	25	63.13	278
	11	43.251	20	42.01	310	12.159	49	15.82	234	42.823	77	50.34	29	3.411	22	60.35	290
	21	43.271	75	38.91	311	12.208	88	13.48	230	42.900	110	50.63	21	3.433	69	57.45	290
	31	43.346	127	35.80	298	12.296	123	11.18	217	43.010	142	50.84	10	3.502	115	54.55	279
Febr.	10	43.473	178	32.82	275	12.419	158	9.01	194	43.152	171	50.94	3	3.617	160	51.76	257
	20	43.651	225	30.07	241	12.577	191	7.07	163	43.323	197	50.91	19	3.777	202	49.19	224
März	1	43.876	268	27.66	196	12.768	220	5.44	126	43.520	222	50.72	36	3.979	240	46.95	183
	11	44.144	304	25.70	145	12.988	246	4.18	81	43.742	244	50.36	55	4.219	273	45.12	133
	21	44.448	334	24.25	87	13.234	268	3.37	35	43.986	263	49.81	74	4.492	302	43.79	79
	31	44.782	356	23.38	27	13.502	286	3.02	15	44.249	279	49.07	91	4.794	324	43.00	22
Apr.	10	45.138	370	23.11	34	13.788	298	3.17	64	44.528	292	48.16	106	5.118	339	42.78	36
	20	45.508	375	23.45	93	14.086	305	3.81	110	44.820	299	47.10	119	5.457	345	43.14	92
	30	45.883	370	24.38	148	14.391	305	4.91	152	45.119	302	45.91	127	5.802	344	44.06	145
Mai	10	46.253	356	25.86	198	14.696	297	6.43	189	45.421	298	44.64	132	6.146	335	45.51	192
	20	46.609	332	27.84	242	14.993	283	8.32	219	45.719	287	43.32	133	6.481	316	47.43	233
	30	46.941	300	30.26	277	15.276	262	10.51	244	46.006	271	41.99	128	6.797	290	49.76	267
Juni	9	47.241	260	33.03	305	15.538	234	12.95	260	46.277	246	40.71	120	7.087	255	52.43	293
	19	47.501	213	36.08	323	15.772	200	15.55	270	46.523	216	39.51	110	7.342	215	55.36	310
	29	47.714	161	39.31	334	15.972	160	18.25	272	46.739	180	38.41	95	7.557	168	58.46	319
Juli	9	47.875	105	42.65	337	16.132	116	20.97	268	46.919	140	37.46	79	7.725	117	61.65	321
	19	[25] 47.980	45	46.02	330	[26] 16.248	71	23.65	257	[26] 47.059	95	36.67	62	[27] 7.842	64	64.86	315
	28	48.025	13	49.32	318	16.319	23	26.22	242	47.154	49	36.05	45	7.906	10	68.01	302
Aug.	7	48.012	70	52.50	297	16.342	24	28.64	220	47.203	3	35.60	28	7.916	43	71.03	283
	17	47.942	125	55.47	271	16.318	68	30.84	196	47.206	41	35.32	13	7.873	93	73.86	257
	27	47.817	174	58.18	240	16.250	108	32.80	168	47.165	81	35.19	2	7.780	140	76.43	227
Sept.	6	47.643	216	60.58	202	16.142	142	34.48	137	47.084	116	35.21	13	7.640	179	78.70	192
	16	47.427	250	62.60	162	16.000	169	35.85	103	46.968	143	35.34	23	7.461	211	80.62	154
	26	47.177	274	64.22	117	15.831	189	36.88	67	46.825	163	35.57	30	7.250	234	82.16	111
Okt.	6	46.903	288	65.39	70	15.642	199	37.55	32	46.662	173	35.87	35	7.016	248	83.27	67
	16	46.615	292	66.09	20	15.443	200	37.87	6	46.489	172	36.22	39	6.768	252	83.94	20
	26	46.323	284	66.29	32	15.243	192	37.81	44	46.317	163	36.61	41	6.516	246	84.14	28
Nov.	5	46.039	268	65.97	83	15.051	176	37.37	81	46.154	146	37.02	42	6.270	232	83.86	76
	15	45.771	241	65.14	133	14.875	153	36.56	117	46.008	121	37.44	43	6.038	208	83.10	123
	25	45.530	206	63.81	180	14.722	124	35.39	151	45.887	91	37.87	44	5.830	177	81.87	167
Dez.	5	45.324	165	62.01	223	14.598	90	33.88	180	45.796	56	38.31	43	5.653	141	80.20	207
	15	45.159	118	59.78	260	14.508	54	32.08	205	45.740	19	38.74	42	5.512	99	78.13	242
	25	45.041	68	57.18	288	14.454	15	30.03	224	45.721	17	39.16	39	5.413	56	75.71	269
	35	44.973		54.30		14.439		27.79		45.738		39.55		5.357		73.02	
Mittl. Ort		44.453		30.79		12.952		6.72		43.595		55.94		4.406		49.37	
sec δ, tg δ		1.454		+1.056		1.099		+0.455		1.025		−0.226		1.307		+0.841	
a, a'		+1.9		+10.9		+2.6		+11.1		+3.3		+11.1		+2.2		+11.5	
b, b'		+0.04		+ 0.84		+0.02		+ 0.83		−0.01		+ 0.83		+0.03		+ 0.82	

Tag	764) α Pavonis AR.	Δ	764) α Pavonis Dekl.	Δ	767) ϑ Cephei AR.	Δ	767) ϑ Cephei Dekl.	Δ
1940	20h 20m		−56° 55′		20h 28m		+62° 47′	
	s		″		s		″	
Jan. 1	52.773	26	44.09	222	32.85	15	48.24	308
11	52.799	95	41.87	235	32.70	6	45.16	328
21	52.894	159	39.52	242	32.64	2	41.88	337
31	53.053	220	37.10	243	32.66	11	38.51	331
Febr. 10	53.273	275	34.67	239	32.77	19	35.20	314
20	53.548	326	32.28	231	32.96	27	32.06	284
März 1	53.874	370	29.97	217	33.23	34	29.22	243
11	54.244	410	27.80	200	33.57	41	26.79	193
21	54.654	443	25.80	179	33.98	45	24.86	135
31	55.097	469	24.01	155	34.43	50	23.51	74
Apr. 10	55.566	489	22.46	127	34.93	52	22.77	10
20	56.055	500	21.19	97	35.45	52	22.67	55
30	56.555	503	20.22	64	35.97	52	23.22	115
Mai 10	57.058	494	19.58	30	36.49	50	24.37	172
20	57.552	477	19.28	6	36.99	47	26.09	223
30	58.029	447	19.34	41	37.46	42	28.32	266
Juni 9	58.476	407	19.75	76	37.88	36	30.98	302
19	58.883	356	20.51	109	38.24	29	34.00	329
29	59.239	297	21.60	138	38.53	21	37.29	348
Juli 9	59.536	228	22.98	164	38.74	13	40.77	358
19	59.764	153	24.62	183	38.87	5	44.35	359
28*)	[27] 59.917	75	26.45	197	38.92	3	47.94	353
Aug. 7	59.992	4	28.42	204	[29] 38.89	12	51.47	337
17	59.988	80	30.46	204	38.77	19	54.84	316
27	59.908	153	32.50	194	38.58	27	58.00	288
Sept. 6	59.755	217	34.44	177	38.31	33	60.88	253
16	59.538	269	36.21	153	37.98	38	63.41	213
26	59.269	308	37.74	123	37.60	42	65.54	168
Okt. 6	58.961	331	38.97	86	37.18	45	67.22	119
16	58.630	338	39.83	45	36.73	47	68.41	66
26	58.292	328	40.28	3	36.26	46	69.07	10
Nov. 5	57.964	302	40.31	40	35.80	46	69.17	47
15	57.662	262	39.91	82	35.34	42	68.70	103
25	57.400	211	39.09	121	34.92	38	67.67	158
Dez. 5	57.189	151	37.88	155	34.54	33	66.09	210
15	57.038	85	36.33	185	34.21	27	63.99	254
25	56.953	17	34.48	208	33.94	20	61.45	292
35	56.936		32.40		33.74		58.53	
Mittl. Ort	54.781		44.93		34.62		31.35	
sec δ, tg δ	1.833		−1.536		2.187		+1.945	
a, *a′*	+4.7		+11.6		+1.0		+12.1	
b, *b′*	−0.06		+ 0.82		+0.08		+ 0.80	

Tag	768) ε Delphini AR.	Δ	768) ε Delphini Dekl.	Δ	770) 73 Draconis AR.	Δ	770) 73 Draconis Dekl.	Δ
1940	20h 30m		+11° 5′		20h 32m		+74° 44′	
	s		″		s		″	
Jan. 1	20.044	11	63.10	162	15.95	35	75.78	302
11	20.055	45	61.48	164	15.60	21	72.76	326
21	20.100	79	59.84	159	15.39	5	69.50	338
31	20.179	112	58.25	147	15.34	11	66.12	338
Febr. 10	20.291	143	56.78	128	15.45	26	62.74	324
20	20.434	172	55.50	103	15.71	41	59.50	298
März 1	20.606	200	54.47	71	16.12	54	56.52	260
11	20.806	225	53.76	36	16.66	65	53.92	212
21	21.031	247	53.40	1	17.31	75	51.80	157
31	21.278	267	53.41	40	18.06	81	50.23	96
Apr. 10	21.545	281	53.81	78	18.87	86	49.27	32
20	21.826	290	54.59	114	19.73	86	48.95	32
30	22.116	295	55.73	146	20.59	85	49.27	94
Mai 10	22.411	292	57.19	172	21.44	81	50.21	153
20	22.703	282	58.91	194	22.25	74	51.74	205
30	22.985	265	60.85	209	22.99	66	53.79	251
Juni 9	23.250	243	62.94	218	23.65	55	56.30	290
19	23.493	213	65.12	222	24.20	44	59.20	321
29	23.706	177	67.34	218	24.64	30	62.41	342
Juli 9	23.883	138	69.52	211	24.94	17	65.83	356
19	24.021	95	71.63	198	25.11	3	69.39	361
28*)	24.116	50	73.61	182	25.14	11	73.00	358
Aug. 7	[30] 24.166	6	75.43	162	[30] 25.03	25	76.58	347
17	24.172	38	77.05	140	24.78	38	80.05	329
27	24.134	78	78.45	116	24.40	50	83.34	303
Sept. 6	24.056	112	79.61	90	23.90	61	86.37	272
16	23.944	139	80.51	65	23.29	69	89.09	233
26	23.805	160	81.16	39	22.60	77	91.42	190
Okt. 6	23.645	172	81.55	11	21.83	82	93.32	141
16	23.473	175	81.66	14	21.01	85	94.73	89
26	23.298	169	81.52	41	20.16	86	95.62	34
Nov. 5	23.129	155	81.11	66	19.30	85	95.96	24
15	22.974	135	80.45	90	18.45	81	95.72	83
25	22.839	110	79.55	113	17.64	75	94.89	139
Dez. 5	22.729	79	78.42	132	16.89	66	93.50	194
15	22.650	46	77.10	149	16.23	56	91.56	242
25	22.604	12	75.61	160	15.67	44	89.14	283
35	22.592		74.01		15.23		86.31	
Mittl. Ort	20.735		53.62		19.26		57.66	
sec δ, tg δ	1.019		+0.196		3.802		+3.668	
a, *a′*	+2.9		+12.2		−0.8		+12.4	
b, *b′*	+0.01		+ 0.79		+0.15		+ 0.79	

*) Bei Stern 767), 768) und 770) lies Juli 29.

Tag	769) α Indi AR.		769) α Indi Dekl.		771) β Delphini m AR.		771) β Delphini m Dekl.		773) υ Capricorni AR.		773) υ Capricorni Dekl.		774) α Delphini AR.		774) α Delphini Dekl.	
1940	$20^h\ 33^m$		−47° 29′		$20^h\ 34^m$		+14° 23′		$20^h\ 36^m$		−18° 20′		$20^h\ 36^m$		+15° 41′	
	s		"		s		"		s		"		s		"	
Jan. 1	19.811	17	67.37	171	43.391	3	17.28	176	37.340	22	60.04	1	50.330	0	67.79	181
11	19.828	70	65.66	186	43.394	39	15.52	179	37.362	57	60.03	10	50.330	35	65.98	185
21	19.898	120	63.80	196	43.433	72	13.73	176	37.419	91	59.93	20	50.365	69	64.13	182
31	20.018	168	61.84	202	43.505	106	11.97	164	37.510	123	59.73	31	50.434	103	62.31	171
Febr. 10	20.186	213	59.82	204	43.611	139	10.33	145	37.633	154	59.42	43	50.537	136	60.60	152
20	20.399	254	57.78	202	43.750	168	8.88	119	37.787	183	58.99	57	50.673	167	59.08	125
März 1	20.653	291	55.76	197	43.918	197	7.69	87	37.970	211	58.42	72	50.840	195	57.83	93
11	20.944	325	53.79	189	44.115	224	6.82	50	38.181	235	57.70	87	51.035	223	56.90	56
21	21.269	354	51.90	177	44.339	247	6.32	10	38.416	258	56.83	100	51.258	247	56.34	15
31	21.623	379	50.13	161	44.586	267	6.22	30	38.674	277	55.83	112	51.505	267	56.19	27
Apr. 10	22.002	398	48.52	143	44.853	282	6.52	72	38.951	293	54.71	123	51.772	283	56.46	68
20	22.400	412	47.09	120	45.135	293	7.24	110	39.244	305	53.48	129	52.055	293	57.14	108
30	22.812	417	45.89	96	45.428	297	8.34	144	39.549	311	52.19	133	52.348	298	58.22	144
Mai 10	23.229	415	44.93	68	45.725	294	9.78	175	39.860	311	50.86	132	52.646	296	59.66	175
20	23.644	403	44.25	38	46.019	286	11.53	199	40.171	303	49.54	127	52.942	287	61.41	201
30	24.047	383	43.87	7	46.305	269	13.52	216	40.474	289	48.27	118	53.229	271	63.42	219
Juni 9	24.430	353	43.80	23	46.574	246	15.68	229	40.763	268	47.09	105	53.500	247	65.61	233
19	24.783	314	44.03	55	46.820	216	17.97	234	41.031	239	46.04	91	53.747	218	67.94	239
29	25.097	267	44.58	84	47.036	180	20.31	233	41.270	205	45.13	73	53.965	182	70.33	239
Juli 9	25.364	212	45.42	110	47.216	141	22.64	227	41.475	164	44.40	54	54.147	142	72.72	233
19	25.576	151	46.52	132	47.357	97	24.91	215	41.639	120	43.86	34	54.289	99	75.05	222
29	[30] 25.727	87	47.84	150	[31] 47.454	53	27.06	200	[31] 41.759	73	43.52	16	[31] 54.388	53	77.27	207
Aug. 7	25.814	22	49.34	161	47.507	7	29.06	180	41.832	25	43.36	2	54.441	8	79.34	187
17	25.836	42	50.95	167	47.514	36	30.86	157	41.857	21	43.38	18	54.449	35	81.21	165
27	25.794	102	52.62	165	47.478	77	32.43	133	41.836	64	43.56	31	54.414	76	82.86	139
Sept. 6	25.692	155	54.27	157	47.401	112	33.76	106	41.772	103	43.87	41	54.338	112	84.25	113
16	25.537	200	55.84	141	47.289	140	34.82	79	41.669	134	44.28	48	54.226	140	85.38	85
26	25.337	233	57.25	119	47.149	161	35.61	50	41.535	156	44.76	51	54.086	161	86.23	55
Okt. 6	25.104	254	58.44	93	46.988	173	36.11	21	41.379	170	45.27	52	53.925	175	86.78	25
16	24.850	261	59.37	61	46.815	177	36.32	8	41.209	174	45.79	50	53.750	178	87.03	5
26	24.589	256	59.98	26	46.638	173	36.24	37	41.035	169	46.29	45	53.572	174	86.98	34
Nov. 5	24.333	237	60.24	8	46.465	160	35.87	65	40.866	155	46.74	41	53.398	162	86.64	65
15	24.096	206	60.16	44	46.305	140	35.22	93	40.711	133	47.15	34	53.236	143	85.99	93
25	23.890	167	59.72	77	46.165	115	34.29	118	40.578	105	47.49	27	53.093	118	85.06	119
Dez. 5	23.723	121	58.95	107	46.050	86	33.11	140	40.473	73	47.76	21	52.975	89	83.87	143
15	23.602	69	57.88	135	45.964	53	31.71	159	40.400	38	47.97	13	52.886	57	82.44	163
25	23.533	17	56.53	156	45.911	19	30.12	173	40.362	2	48.10	6	52.829	22	80.81	178
35	23.516		54.97		45.892		28.39		40.360		48.16		52.807		79.03	
Mittl. Ort	21.298		68.04		44.070		7.21		38.161		64.41		51.003		57.47	
sec δ, tg δ	1.480		−1.091		1.032		+0.257		1.054		−0.332		1.039		+0.281	
a, a'	+4.2		+12.4		+2.8		+12.5		+3.4		+12.7		+2.8		+12.7	
b, b'	−0.05		+ 0.78		+0.01		+ 0.78		−0.01		+ 0.78		+0.01		+ 0.77	

Scheinbare Sternörter 1940

Tag	777) α Cygni AR.	777) α Cygni Dekl.	775) β Pavonis AR.	775) β Pavonis Dekl.	780) ε Cygni AR.	780) ε Cygni Dekl.	783) η Cephei AR.	783) η Cephei Dekl.
1940	$20^h\ 39^m$	$+45°\ 3'$	$20^h\ 39^m$	$-66°\ 24'$	$20^h\ 43^m$	$+33°\ 44'$	$20^h\ 44^m$	$+61°\ 36'$
	s	"	s	"	s	"	s	"
Jan. 1	22.147 62	69.74 278	31.64 4	75.58 263	46.151 34	54.09 246	2.78 16	36.72 294
11	22.085 12	66.96 296	31.60 5	72.95 281	46.117 6	51.63 259	2.62 9	33.78 317
21	22.073 38	64.00 301	31.65 14	70.14 290	46.123 48	49.04 261	2.53 0	30.61 329
31	22.111 90	60.99 294	31.79 23	67.24 293	46.171 89	46.43 253	2.53 7	27.32 328
Febr. 10	22.201 140	58.05 277	32.02 32	64.31 290	46.260 130	43.90 236	2.60 16	24.04 314
20	22.341 188	55.28 247	32.34 38	61.41 279	46.390 169	41.54 207	2.76 23	20.90 287
März 1	22.529 233	52.81 208	32.72 45	58.62 262	46.559 205	39.47 170	2.99 31	18.03 250
11	22.762 273	50.73 161	33.17 51	56.00 242	46.764 240	37.77 126	3.30 37	15.53 202
21	23.035 308	49.12 107	33.68 56	53.58 215	47.004 269	36.51 77	3.67 42	13.51 147
31	23.343 336	48.05 49	34.24 60	51.43 185	47.273 294	35.74 23	4.09 47	12.04 87
Apr. 10	23.679 356	47.56 10	34.84 64	49.58 150	47.567 313	35.51 30	4.56 50	11.17 24
20	24.035 368	47.66 68	35.48 65	48.08 114	47.880 325	35.81 82	5.06 51	10.93 40
30	24.403 370	48.34 124	36.13 66	46.94 74	48.205 330	36.63 132	5.57 51	11.33 101
Mai 10	24.773 363	49.58 176	36.79 65	46.20 32	48.535 326	37.95 177	6.08 49	12.34 159
20	25.136 346	51.34 221	37.44 64	45.88 10	48.861 314	39.72 217	6.57 47	13.93 211
30	25.482 320	53.55 259	38.08 60	45.98 52	49.175 295	41.89 249	7.04 42	16.04 256
Juni 9	25.802 286	56.14 290	38.68 55	46.50 92	49.470 267	44.38 274	7.46 38	18.60 294
19	26.088 243	59.04 313	39.23 48	47.42 132	49.737 233	47.12 291	7.84 31	21.54 324
29	26.331 195	62.17 327	39.71 41	48.74 166	49.970 192	50.03 301	8.15 24	24.78 345
Juli 9	26.526 142	65.44 334	40.12 32	50.40 196	50.162 146	53.04 304	8.39 17	28.23 358
19	26.668 86	68.78 331	40.44 23	52.36 219	50.308 98	56.08 300	8.56 8	31.81 362
29	26.754 28	72.09 323	40.67 12	54.55 235	50.406 47	59.08 288	8.64 0	35.43 358
Aug. 7	[1] 26.782 29	75.32 306	[1] 40.79 2	56.90 244	[2] 50.453 3	61.96 271	[2] 8.64 8	39.01 346
17	26.753 84	78.38 285	40.81 9	59.34 244	50.450 51	64.67 248	8.56 15	42.47 327
27	26.669 134	81.23 256	40.72 19	61.78 233	50.399 97	67.15 221	8.41 23	45.74 301
Sept. 6	26.535 179	83.79 223	40.53 27	64.11 216	50.302 136	69.36 189	8.18 28	48.75 269
16	26.356 215	86.02 184	40.26 36	66.27 188	50.166 168	71.25 155	7.90 34	51.44 231
26	26.141 244	87.86 143	39.90 41	68.15 152	49.998 194	72.80 116	7.56 39	53.75 187
Okt. 6	25.897 264	89.29 97	39.49 46	69.67 111	49.804 210	73.96 76	7.17 42	55.62 139
16	25.633 272	90.26 49	39.03 47	70.78 64	49.594 217	74.72 33	6.75 43	57.01 88
26	25.361 270	90.75 0	38.56 47	71.42 13	49.377 216	75.05 10	6.32 44	57.89 33
Nov. 5	25.091 260	90.75 51	38.09 45	71.55 38	49.161 206	74.95 54	5.88 43	58.22 24
15	24.831 241	90.24 101	37.64 41	71.17 88	48.955 187	74.41 98	5.45 41	57.98 81
25	24.590 213	89.23 150	37.23 35	70.29 136	48.768 163	73.43 139	5.04 37	57.17 137
Dez. 5	24.377 178	87.73 195	36.88 27	68.93 178	48.605 133	72.04 176	4.67 33	55.80 189
15	24.199 138	85.78 234	36.61 18	67.15 216	48.472 98	70.28 210	4.34 27	53.91 236
25	24.061 94	83.44 265	36.43 10	64.99 245	48.374 60	68.18 236	4.07 21	51.55 276
35	23.967	80.79	36.33	62.54	48.314	65.82	3.86	48.79
Mittl. Ort	23.096	54.49	34.57	74.34	46.899	40.48	4.30	19.11
sec δ, tg δ	1.416	+1.002	2.500	−2.291	1.203	+0.668	2.103	+1.850
a, *a'*	+2.0	+12.8	+5.4	+12.9	+2.4	+13.1	+1.2	+13.2
b, *b'*	+0.04	+ 0.77	−0.10	+ 0.77	+0.03	+ 0.76	+0.08	+ 0.75

Tag	781) ε Aquarii AR.	Δ	781) ε Aquarii Dekl.	Δ	784) λ Cygni *m* AR.	Δ	784) λ Cygni *m* Dekl.	Δ
1940	$20^h\ 44^m$		$-9°\ 42'$		$20^h\ 45^m$		$+36°\ 16'$	
	s		″		s		″	
Jan. 1	25.020	11	54.25	48	3.398	42	23.73	254
11	25.031	46	54.73	41	3.356	0	21.19	267
21	25.077	78	55.14	33	3.356	43	18.52	271
31	25.155	109	55.47	21	3.399	85	15.81	265
Febr. 10	25.264	139	55.68	6	3.484	128	13.16	246
20	25.403	167	55.74	12	3.612	170	10.70	218
März 1	25.570	195	55.62	31	3.782	207	8.52	181
11	25.765	220	55.31	53	3.989	243	6.71	137
21	25.985	244	54.78	74	4.232	274	5.34	86
31	26.229	264	54.04	95	4.506	300	4.48	32
Apr. 10	26.493	280	53.09	113	4.806	319	4.16	23
20	26.773	293	51.96	129	5.125	332	4.39	77
30	27.066	300	50.67	142	5.457	336	5.16	128
Mai 10	27.366	301	49.25	149	5.793	333	6.44	174
20	27.667	295	47.76	152	6.126	320	8.18	216
30	27.962	281	46.24	151	6.446	300	10.34	250
Juni 9	28.243	262	44.73	144	6.746	272	12.84	277
19	28.505	235	43.29	135	7.018	235	15.61	295
29	28.740	201	41.94	121	7.253	194	18.56	307
Juli 9	28.941	163	40.73	105	7.447	148	21.63	311
19	29.104	121	39.68	87	7.595	97	24.74	307
29	29.225	76	38.81	68	7.692	46	27.81	297
Aug. 7	[2] 29.301	30	38.13	49	[2] 7.738	6	30.78	279
17	29.331	15	37.64	31	7.732	56	33.57	258
27	29.316	57	37.33	13	7.676	101	36.15	231
Sept. 6	29.259	93	37.20	2	7.575	142	38.46	198
16	29.166	124	37.22	16	7.433	176	40.44	163
26	29.042	147	37.38	26	7.257	202	42.07	123
Okt. 6	28.895	160	37.64	35	7.055	219	43.30	83
16	28.735	166	37.99	42	6.836	227	44.13	38
26	28.569	162	38.41	48	6.609	225	44.51	7
Nov. 5	28.407	149	38.89	51	6.384	216	44.44	52
15	28.258	130	39.40	53	6.168	198	43.92	97
25	28.128	105	39.93	55	5.970	173	42.95	140
Dez. 5	28.023	76	40.48	56	5.797	143	41.55	180
15	27.947	43	41.04	56	5.654	108	39.75	215
25	27.904	10	41.60	52	5.546	69	37.60	242
35	27.894		42.12		5.477		35.18	
Mittl. Ort	25.740		59.84		4.168		9.66	
sec δ, tg δ	1.015		−0.171		1.240		+0.734	
a, *a′*	+3.2		+13.2		+2.3		+13.2	
b, *b′*	−0.01		+ 0.75		+0.03		+ 0.75	

Tag	785) β Indi AR.	Δ	785) β Indi Dekl.	Δ	786) 32 Vulpeculae AR.	Δ	786) 32 Vulpeculae Dekl.	Δ
1940	$20^h\ 50^m$		$-58°\ 40'$		$20^h\ 51^m$		$+27°\ 49'$	
	s		″		s		″	
Jan. 1	6.053	32	57.17	224	59.404	31	55.24	223
11	6.021	38	54.93	244	59.373	6	53.01	234
21	6.059	105	52.49	257	59.379	44	50.67	236
31	6.164	169	49.92	263	59.423	82	48.31	228
Febr. 10	6.333	231	47.29	265	59.505	119	46.03	211
20	6.564	287	44.64	260	59.624	156	43.92	184
März 1	6.851	339	42.04	250	59.780	190	42.08	150
11	7.190	387	39.54	235	59.970	222	40.58	108
21	7.577	427	37.19	217	60.192	251	39.50	62
31	8.004	463	35.02	193	60.443	277	38.88	14
Apr. 10	8.467	490	33.09	165	60.720	295	38.74	36
20	8.957	511	31.44	134	61.015	309	39.10	85
30	9.468	521	30.10	100	61.324	316	39.95	132
Mai 10	9.989	521	29.10	64	61.640	315	41.27	172
20	10.510	510	28.46	25	61.955	306	42.99	208
30	11.020	487	28.21	14	62.261	289	45.07	237
Juni 9	11.507	452	28.35	53	62.550	265	47.44	260
19	11.959	405	28.88	90	62.815	234	50.04	274
29	12.364	348	29.78	124	63.049	197	52.78	282
Juli 9	12.712	281	31.02	156	63.246	155	55.60	283
19	12.993	207	32.58	182	63.401	108	58.43	278
29	13.200	126	34.40	201	63.509	60	61.21	266
Aug. 7	[4] 13.326	44	36.41	214	[4] 63.569	13	63.87	248
17	13.370	39	38.55	218	63.582	34	66.35	227
27	13.331	117	40.73	215	63.548	78	68.62	200
Sept. 6	13.214	189	42.88	203	63.470	116	70.62	170
16	13.025	251	44.91	183	63.354	149	72.32	138
26	12.774	299	46.74	154	63.205	173	73.70	103
Okt. 6	12.475	333	48.28	119	63.032	189	74.73	66
16	12.142	350	49.47	79	62.843	197	75.39	27
26	11.792	350	50.26	35	62.646	197	75.66	12
Nov. 5	11.442	333	50.61	11	62.449	187	75.54	52
15	11.109	302	50.50	56	62.262	171	75.02	90
25	10.807	258	49.94	100	62.091	149	74.12	127
Dez. 5	10.549	203	48.94	140	61.942	121	72.85	162
15	10.346	141	47.54	176	61.821	90	71.23	190
25	10.205	74	45.78	206	61.731	55	69.33	215
35	10.131		43.72		61.676		67.18	
Mittl. Ort	8.150		55.57		60.061		42.50	
sec δ, tg δ	1.924		−1.644		1.131		+0.528	
a, *a′*	+4.7		+13.5		+2.6		+13.7	
b, *b′*	−0.07		+ 0.74		+0.02		+ 0.73	

Tag	788) ν Cygni AR.		788) ν Cygni Dekl.		790) ζ Microscopii AR.		790) ζ Microscopii Dekl.		793) 61 Cygni *pr*[1]) AR.		793) 61 Cygni *pr*[1]) Dekl.		794) ν Aquarii AR.		794) ν Aquarii Dekl.	
1940	$20^h 54^m$		$+40° 56'$		$20^h 59^m$		$-38° 51'$		$21^h 4^m$		$+38° 27'$		$21^h 6^m$		$-11° 36'$	
	s		"		s		"		s		"		s		"	
Jan. 1	55.282	65	22.54	259	7.129	9	61.33	118	11.557	54	26.99	240	18.955	7	52.19	35
11	55.217	21	19.95	277	7.120	34	60.15	135	11.503	12	24.59	257	18.948	25	52.54	27
21	55.196	24	17.18	284	7.154	77	58.80	150	11.491	31	22.02	263	18.973	56	52.81	17
31	55.220	71	14.34	280	7.231	117	57.30	162	11.522	75	19.39	260	19.029	88	52.98	4
Febr. 10	55.291	118	11.54	264	7.348	156	55.68	170	11.597	120	16.79	245	19.117	118	53.02	11
20	55.409	163	8.90	238	7.504	192	53.98	177	11.717	163	14.34	220	19.235	149	52.91	29
März 1	55.572	206	6.52	202	7.696	228	52.21	181	11.880	204	12.14	185	19.384	177	52.62	47
11	55.778	245	4.50	158	7.924	260	50.40	181	12.084	243	10.29	142	19.561	204	52.15	68
21	56.023	281	2.92	107	8.184	290	48.59	178	12.327	278	8.87	92	19.765	231	51.47	88
31	56.304	310	1.85	52	8.474	316	46.81	173	12.605	308	7.95	39	19.996	254	50.59	107
Apr. 10	56.614	333	1.33	4	8.790	339	45.08	163	12.913	330	7.56	15	20.250	274	49.52	125
20	56.947	347	1.37	61	9.129	356	43.45	150	13.243	347	7.71	71	20.524	290	48.27	138
30	57.294	354	1.98	115	9.485	367	41.95	133	13.590	355	8.42	124	20.814	301	46.89	149
Mai 10	57.648	351	3.13	165	9.852	370	40.62	113	13.945	353	9.66	172	21.115	305	45.40	155
20	57.999	339	4.78	210	10.222	366	39.49	89	14.298	344	11.38	216	21.420	302	43.85	156
30	58.338	319	6.88	247	10.588	353	38.60	63	14.642	326	13.54	253	21.722	293	42.29	154
Juni 9	58.657	290	9.35	278	10.941	332	37.97	34	14.968	298	16.07	282	22.015	276	40.75	145
19	58.947	252	12.13	301	11.273	301	37.63	6	15.266	264	18.89	304	22.291	251	39.30	134
29	59.199	209	15.14	315	11.574	262	37.57	24	15.530	222	21.93	318	22.542	220	37.96	120
Juli 9	59.408	161	18.29	323	11.836	217	37.81	51	15.752	176	25.11	325	22.762	184	36.76	101
19	59.569	108	21.52	322	12.053	167	38.32	77	15.928	126	28.36	324	22.946	142	35.75	82
29	59.677	53	24.74	314	12.220	111	39.09	99	16.054	73	31.60	317	23.088	97	34.93	62
Aug. 7*)	5 59.730	0	27.88	300	6 12.331	54	40.08	117	7 16.127	20	34.77	301	3 23.185	52	34.31	41
17	59.730	53	30.88	279	12.385	3	41.25	131	16.147	31	37.78	281	23.237	6	33.90	21
27	59.677	102	33.67	252	12.382	57	42.56	137	16.116	79	40.59	255	23.243	36	33.69	4
Sept. 6	59.575	146	36.19	221	12.325	106	43.93	138	16.037	122	43.14	225	23.207	76	33.65	13
16	59.429	183	38.40	186	12.219	148	45.31	132	15.915	158	45.39	190	23.131	109	33.78	26
26	59.246	211	40.26	146	12.071	181	46.63	121	15.757	186	47.29	151	23.022	134	34.04	36
Okt. 6	59.035	232	41.72	103	11.890	204	47.84	104	15.571	207	48.80	109	22.888	152	34.40	44
16	58.803	242	42.75	58	11.686	214	48.88	82	15.364	218	49.89	66	22.736	160	34.84	49
26	58.561	244	43.33	10	11.472	215	49.70	56	15.146	221	50.55	21	22.576	160	35.33	53
Nov. 5	58.317	236	43.43	38	11.257	203	50.26	29	14.925	213	50.76	26	22.416	152	35.86	54
15	58.081	221	43.05	86	11.054	182	50.55	0	14.712	199	50.50	73	22.264	136	36.40	54
25	57.860	197	42.19	132	10.872	153	50.55	28	14.513	178	49.77	117	22.128	114	36.94	52
Dez. 5	57.663	168	40.87	176	10.719	117	50.27	55	14.335	150	48.60	159	22.014	89	37.46	50
15	57.495	132	39.11	214	10.602	78	49.72	80	14.185	117	47.01	197	21.925	59	37.96	46
25	57.363	94	36.97	247	10.524	36	48.92	104	14.068	81	45.04	226	21.866	27	38.42	41
35	57.269		34.50		10.488		47.88		13.987		42.78		21.839		38.83	
Mittl. Ort	56.053		7.39		8.274		61.35		12.248		12.24		19.626		56.75	
sec δ, tg δ	1.324		+0.867		1.284		−0.806		1.277		+0.794		1.021		−0.206	
a, *a'*	+2.2		+13.9		+3.8		+14.1		+2.3		+14.4		+3.3		+14.6	
b, *b'*	+0.04		+ 0.72		−0.04		+ 0.71		+0.04		+ 0.69		−0.01		+ 0.69	

[1]) Die jährliche Parallaxe (0.″300) ist bereits berücksichtigt.

*) Bei Stern 794) lies Aug. 8.

Tag	795) Br 2777 Ceph AR.		795) Dekl.		797) ζ Cygni AR.		797) Dekl.		800) α Equulei AR.		800) Dekl.		803) α Cephei AR.		803) Dekl.	
1940	$21^h\ 6^m$		$+77°\ 52'$		$21^h\ 10^m$		$+29°\ 58'$		$21^h\ 12^m$		$+4°\ 59'$		$21^h\ 17^m$		$+62°\ 19'$	
Jan. 1	40.66	59	81.04	268	22.256	52	61.35	220	48.906	21	63.66	120	7.70	23	70.44	268
11	40.07	42	78.36	302	22.204	16	59.15	234	48.885	$\overline{10}$	62.46	119	7.47	15	67.76	299
21	39.65	23	75.34	325	22.188	$\overline{22}$	56.81	239	48.895	41	61.27	115	7.32	7	64.77	319
31	39.42	4	72.09	335	22.210	60	54.42	235	48.936	73	60.12	105	7.25	$\overline{1}$	61.58	327
Febr. 10	39.38	$\overline{15}$	68.74	332	22.270	99	52.07	220	49.009	103	59.07	88	7.26	9	58.31	321
20	39.53	35	65.42	315	22.369	137	49.87	197	49.112	134	58.19	67	7.35	18	55.10	303
März 1	39.88	54	62.27	286	22.506	174	47.90	164	49.246	163	57.52	41	7.53	25	52.07	273
11	40.42	69	59.41	247	22.680	210	46.26	125	49.409	193	57.11	12	7.78	33	49.34	232
21	41.11	83	56.94	198	22.890	242	45.01	79	49.602	220	56.99	$\overline{21}$	8.11	39	47.02	182
31	41.94	94	54.96	142	23.132	270	44.22	30	49.822	244	57.20	53	8.50	45	45.20	126
Apr. 10	42.88	102	53.54	81	23.402	294	43.92	$\overline{20}$	50.066	265	57.73	85	8.95	48	43.94	65
20	43.90	106	52.73	18	23.696	311	44.12	70	50.331	282	58.58	116	9.43	52	43.29	4
30	44.96	107	52.55	$\overline{44}$	24.007	320	44.82	117	50.613	293	59.74	143	9.95	52	43.25	$\overline{59}$
Mai 10	46.03	104	52.99	104	24.327	323	45.99	160	50.906	298	61.17	165	10.47	52	43.84	118
20	47.07	98	54.03	161	24.650	317	47.59	199	51.204	295	62.82	182	10.99	51	45.02	173
30	48.05	90	55.64	213	24.967	303	49.58	232	51.499	285	64.64	195	11.50	47	46.75	223
Juni 9	48.95	78	57.77	257	25.270	281	51.90	256	51.784	269	66.59	201	11.97	43	48.98	266
19	49.73	65	60.34	294	25.551	251	54.46	275	52.053	245	68.60	201	12.40	37	51.64	301
29	50.38	51	63.28	325	25.802	215	57.21	286	52.298	214	70.61	197	12.77	31	54.65	329
Juli 9	50.89	34	66.53	346	26.017	173	60.07	290	52.512	178	72.58	188	13.08	23	57.94	348
19	51.23	17	69.99	359	26.190	128	62.97	286	52.690	137	74.46	175	13.31	15	61.42	359
29	51.40	0	73.58	364	26.318	80	65.83	278	52.827	95	76.21	158	13.46	8	65.01	362
Aug. 8	[8] 51.40	17	77.22	362	[9] 26.398	31	68.61	262	[9] 52.922	50	77.79	138	[10] 13.54	$\overline{1}$	68.63	357
17	51.23	33	80.84	351	26.429	$\overline{17}$	71.23	243	52.972	6	79.17	117	13.53	9	72.20	344
27	50.90	49	84.35	333	26.412	62	73.66	218	52.978	$\overline{36}$	80.34	95	13.44	17	75.64	323
Sept. 6	50.41	63	87.68	308	26.350	102	75.84	188	52.942	73	81.29	72	13.27	23	78.87	297
16	49.78	76	90.76	277	26.248	137	77.72	157	52.869	105	82.01	50	13.04	30	81.84	264
26	49.02	86	93.53	238	26.111	164	79.29	122	52.764	130	82.51	28	12.74	34	84.48	224
Okt. 6	48.16	96	95.91	195	25.947	184	80.51	85	52.634	148	82.79	6	12.40	39	86.72	180
16	47.20	102	97.86	145	25.763	194	81.36	46	52.486	157	82.85	$\overline{15}$	12.01	41	88.52	131
26	46.18	106	99.31	91	25.569	198	81.82	6	52.329	158	82.70	34	11.60	43	89.83	78
Nov. 5	45.12	107	100.22	35	25.371	192	81.88	$\overline{35}$	52.171	151	82.36	53	11.17	44	90.61	21
15	44.05	105	100.57	$\overline{25}$	25.179	180	81.53	75	52.020	138	81.83	71	10.73	42	90.82	$\overline{36}$
25	43.00	100	100.32	84	24.999	160	80.78	115	51.882	119	81.12	86	10.31	40	90.46	93
Dez. 5	42.00	93	99.48	142	24.839	136	79.63	150	51.763	96	80.26	100	9.91	37	89.53	149
15	41.07	82	98.06	197	24.703	108	78.13	183	51.667	69	79.26	111	9.54	32	88.04	201
25	40.25	70	96.09	245	24.595	75	76.30	209	51.598	41	78.15	119	9.22	26	86.03	246
35	39.55		93.64		24.520		74.21		51.557		76.96		8.96		83.57	
Mittl. Ort	43.99		60.77		22.827		47.88		49.450		55.64		8.85		51.23	
sec δ, tg δ	4.764		+4.658		1.155		+0.577		1.004		+0.088		2.154		+1.907	
a, *a′*	−1.2		+14.6		+2.6		+14.8		+3.0		+14.9		+1.4		+15.2	
b, *b′*	+0.23		+ 0.69		+0.03		+ 0.67		0.00		+ 0.67		+0.10		+ 0.65	

Scheinbare Sternörter 1940

Tag	804) ι Pegasi AR.		804) ι Pegasi Dekl.		805) γ Pavonis AR.		805) γ Pavonis Dekl.	
1940	21h 19m		+19° 32′		21h 21m		−65° 37′	
	s		″		s		″	
Jan. 1	18.111	42	60.16	179	27.85	14	85.93	244
11	18.069	9	58.37	187	27.71	5	83.49	271
21	18.060	24	56.50	190	27.66	4	80.78	292
31	18.084	57	54.60	183	27.70	11	77.86	303
Febr. 10	18.141	92	52.77	169	27.81	20	74.83	309
20	18.233	126	51.08	146	28.01	28	71.74	307
März 1	18.359	159	49.62	116	28.29	34	68.67	299
11	18.518	192	48.46	81	28.63	41	65.68	284
21	18.710	222	47.65	41	29.04	47	62.84	265
31	18.932	249	47.24	1	29.51	53	60.19	239
Apr. 10	19.181	273	47.25	44	30.04	57	57.80	208
20	19.454	290	47.69	87	30.61	60	55.72	174
30	19.744	303	48.56	127	31.21	62	53.98	136
Mai 10	20.047	307	49.83	162	31.83	63	52.62	94
20	20.354	304	51.45	192	32.46	63	51.68	50
30	20.658	294	53.37	218	33.09	62	51.18	6
Juni 9	20.952	276	55.55	236	33.71	58	51.12	39
19	21.228	250	57.91	248	34.29	53	51.51	84
29	21.478	218	60.39	253	34.82	46	52.35	124
Juli 9	21.696	181	62.92	252	35.28	40	53.59	162
19	21.877	139	65.44	245	35.68	30	55.21	194
29	22.016	94	67.89	234	35.98	21	57.15	220
Aug. 8	[11] 22.110	49	70.23	217	[12] 36.19	11	59.35	238
17	22.159	3	72.40	196	36.30	1	61.73	247
27	22.162	39	74.36	173	36.31	9	64.20	248
Sept. 6	22.123	79	76.09	147	36.22	19	66.68	240
16	22.044	112	77.56	118	36.03	28	69.08	220
26	21.932	138	78.74	87	35.75	34	71.28	193
Okt. 6	21.794	157	79.61	57	35.41	40	73.21	156
16	21.637	169	80.18	25	35.01	44	74.77	114
26	21.468	171	80.43	7	34.57	45	75.91	66
Nov. 5	21.297	167	80.36	40	34.12	45	76.57	14
15	21.130	156	79.96	71	33.67	42	76.71	38
25	20.974	138	79.25	101	33.25	39	76.33	90
Dez. 5	20.836	117	78.24	128	32.86	32	75.43	138
15	20.719	90	76.96	153	32.54	26	74.05	182
25	20.629	61	75.43	171	32.28	18	72.23	222
35	20.568		73.72		32.10		70.01	
Mittl. Ort	18.603		48.87		30.55		81.25	
sec δ, tg δ	1.061		+0.355		2.424		−2.208	
a, *a′*	+2.8		+15.3		+5.0		+15.4	
b, *b′*	+0.02		+ 0.65		−0.11		+ 0.64	

Tag	806) ζ Capricorni AR.		806) ζ Capricorni Dekl.		809) β Cephei AR.		809) β Cephei Dekl.	
1940	21h 23m		−22° 39′		21h 27m		+70° 17′	
	s		″		s		″	
Jan. 1	13.937	24	78.62	25	52.06	37	70.41	256
11	13.913	10	78.37	40	51.69	27	67.85	292
21	13.923	43	77.97	54	51.42	17	64.93	317
31	13.966	75	77.43	68	51.25	5	61.76	330
Febr. 10	14.041	108	76.75	84	51.20	7	58.46	330
20	14.149	140	75.91	99	51.27	18	55.16	318
März 1	14.289	171	74.92	112	51.45	30	51.98	291
11	14.460	201	73.80	126	51.75	41	49.07	255
21	14.661	231	72.54	139	52.16	50	46.52	208
31	14.892	257	71.15	148	52.66	57	44.44	154
Apr. 10	15.149	280	69.67	156	53.23	64	42.90	94
20	15.429	300	68.11	159	53.87	67	41.96	33
30	15.729	313	66.52	159	54.54	70	41.63	30
Mai 10	16.042	322	64.93	154	55.24	69	41.93	92
20	16.364	322	63.39	145	55.93	67	42.85	149
30	16.686	315	61.94	132	56.60	63	44.34	201
Juni 9	17.001	299	60.62	115	57.23	57	46.35	248
19	17.300	277	59.47	94	57.80	49	48.83	288
29	17.577	247	58.53	73	58.29	40	51.71	320
Juli 9	17.824	210	57.80	48	58.69	31	54.91	343
19	18.034	167	57.32	24	59.00	21	58.34	360
29	18.201	121	57.08	0	59.21	9	61.94	367
Aug. 8	[12] 18.322	73	57.08	22	[13] 59.30	1	65.61	366
17	18.395	25	57.30	41	59.29	12	69.27	357
27	18.420	22	57.71	58	59.17	22	72.84	342
Sept. 6	18.398	65	58.29	70	58.95	31	76.26	319
16	18.333	102	58.99	78	58.64	40	79.45	288
26	18.231	132	59.77	82	58.24	47	82.33	252
Okt. 6	18.099	153	60.59	81	57.77	54	84.85	209
16	17.946	166	61.40	76	57.23	58	86.94	161
26	17.780	169	62.16	67	56.65	61	88.55	109
Nov. 5	17.611	163	62.83	57	56.04	62	89.64	51
15	17.448	150	63.40	45	55.42	62	90.15	7
25	17.298	130	63.85	30	54.80	59	90.08	66
Dez. 5	17.168	105	64.15	16	54.21	56	89.42	125
15	17.063	75	64.31	1	53.65	50	88.17	181
25	16.988	44	64.32	13	53.15	42	86.36	231
35	16.944		64.19		52.73		84.05	
Mittl. Ort	14.684		80.19		53.60		49.84	
sec δ, tg δ	1.084		−0.418		2.966		+2.792	
a, *a′*	+3.4		+15.5		+0.8		+15.8	
b, *b′*	−0.02		+ 0.63		+0.15		+ 0.62	

Tag	808) β Aquarii AR.		808) β Aquarii Dekl.		811) 74 Cygni AR.		811) 74 Cygni Dekl.		810) ν Octantis AR.		810) ν Octantis Dekl.		815) ε Pegasi AR.		815) ε Pegasi Dekl.	
1940	$21^h\ 28^m$		$-5°\ 49'$		$21^h\ 34^m$		$+40°\ 8'$		$21^h\ 34^m$		$-77°\ 38'$		$21^h\ 41^m$		$+9°\ 35'$	
Jan. 1	23.523	27	64.76	63	31.978	101	51.96	230	47.40	40	96.12	279	13.887	46	65.42	130
11	23.496	2	65.39	57	31.877	63	49.66	252	47.00	24	93.33	310	13.841	19	64.12	135
21	23.498	31	65.96	49	31.814	21	47.14	266	46.76	7	90.23	332	13.822	11	62.77	133
31	23.529	62	66.45	36	31.793	22	44.48	269	46.69	10	86.91	345	13.833	41	61.44	125
Febr. 10	23.591	92	66.81	20	31.815	67	41.79	261	46.79	26	83.46	349	13.874	73	60.19	111
20	23.683	123	67.01	1	31.882	114	39.18	242	47.05	42	79.97	345	13.947	104	59.08	90
März 1	23.806	153	67.02	21	31.996	160	36.76	213	47.47	56	76.52	334	14.051	137	58.18	65
11	23.959	182	66.81	45	32.156	203	34.63	175	48.03	69	73.18	315	14.188	169	57.53	35
21	24.141	210	66.36	69	32.359	244	32.88	130	48.72	82	70.03	289	14.357	200	57.18	2
31	24.351	237	65.67	93	32.603	281	31.58	79	49.54	92	67.14	259	14.557	228	57.16	33
Apr. 10	24.588	260	64.74	115	32.884	312	30.79	26	50.46	101	64.55	222	14.785	254	57.49	69
20	24.848	279	63.59	136	33.196	334	30.53	28	51.47	107	62.33	181	15.039	275	58.18	103
30	25.127	293	62.23	153	33.530	350	30.81	83	52.54	112	60.52	136	15.314	290	59.21	134
Mai 10	25.420	300	60.70	164	33.880	356	31.64	133	53.66	114	59.16	88	15.604	299	60.55	161
20	25.720	302	59.06	172	34.236	353	32.97	180	54.80	114	58.28	38	15.903	301	62.16	184
30	26.022	295	57.34	175	34.589	340	34.77	220	55.94	111	57.90	12	16.204	296	64.00	201
Juni 9	26.317	281	55.59	173	34.929	319	36.97	254	57.05	105	58.02	62	16.500	283	66.01	212
19	26.598	259	53.86	164	35.248	288	39.51	282	58.10	97	58.64	111	16.783	261	68.13	218
29	26.857	231	52.22	153	35.536	251	42.33	302	59.07	85	59.75	156	17.044	234	70.31	217
Juli 9	27.088	197	50.69	139	35.787	206	45.35	313	59.92	73	61.31	197	17.278	200	72.48	212
19	27.285	157	49.30	120	35.993	158	48.48	319	60.65	57	63.28	232	17.478	161	74.60	202
29	27.442	115	48.10	100	36.151	105	51.67	316	61.22	39	65.60	258	17.639	120	76.62	187
Aug. 8	27.557	70	47.10	78	36.256	52	54.83	306	61.61	21	68.18	278	17.759	75	78.49	169
17	13 27.627	25	46.32	58	15 36.308	0	57.89	291	15 61.82	2	70.96	287	17 17.834	32	80.18	148
27	27.652	17	45.74	37	36.308	50	60.80	270	61.84	17	73.83	287	17.866	11	81.66	126
Sept. 6	27.635	57	45.37	17	36.258	97	63.50	242	61.67	36	76.70	275	17.855	51	82.92	102
16	27.578	90	45.20	0	36.161	138	65.92	212	61.31	52	79.45	252	17.804	84	83.94	78
26	27.488	118	45.20	16	36.023	171	68.04	176	60.79	67	81.97	221	17.720	112	84.72	53
Okt. 6	27.370	138	45.36	29	35.852	197	69.80	136	60.12	79	84.18	179	17.608	133	85.25	28
16	27.232	150	45.65	40	35.655	214	71.16	94	59.33	87	85.97	130	17.475	147	85.53	4
26	27.082	153	46.05	50	35.441	224	72.10	49	58.46	93	87.27	75	17.328	153	85.57	19
Nov. 5	26.929	148	46.55	56	35.217	225	72.59	2	57.53	93	88.02	16	17.175	151	85.38	41
15	26.781	137	47.11	62	34.992	218	72.61	45	56.60	91	88.18	43	17.024	143	84.97	64
25	26.644	120	47.73	66	34.774	204	72.16	91	55.69	85	87.75	103	16.881	130	84.33	83
Dez. 5	26.524	99	48.39	69	34.570	183	71.25	137	54.84	75	86.72	159	16.751	111	83.50	101
15	26.425	74	49.08	69	34.387	156	69.88	177	54.09	63	85.13	209	16.640	89	82.49	116
25	26.351	46	49.77	68	34.231	125	68.11	213	53.46	49	83.04	253	16.551	64	81.33	127
35	26.305		50.45		34.106		65.98		52.97		80.51		16.487		80.06	
Mittl. Ort	24.068		69.93		32.462		35.98		53.06		89.69		14.291		56.68	
sec δ, tg δ	1.005		−0.102		1.308		+0.843		4.679		−4.570		1.014		+0.169	
a, *a′*	+3.2		+15.8		+2.4		+16.1		+6.7		+16.2		+2.9		+16.5	
b, *b′*	−0.01		+ 0.61		+0.05		+ 0.59		−0.25		+ 0.59		+0.01		+ 0.57	

Scheinbare Sternörter 1940

Tag	819) δ Capricorni[1]) AR.		Dekl.		821) π^2 Cygni AR.		Dekl.		822) γ Gruis AR.		Dekl.		823) 16 Pegasi AR.		Dekl.	
1940	$21^h 43^m$		$-16° 23'$		$21^h 44^m$		$+49° 1'$		$21^h 50^m$		$-37° 38'$		$21^h 50^m$		$+25° 38'$	
	s		"		s		"		s		"		s		"	
Jan. 1	43.284	38	59.63	10	33.911	149	70.67	235	17.156	65	55.47	95	19.451	76	44.37	183
11	43.246	8	59.73	2	33.762	106	68.32	265	17.091	27	54.52	121	19.375	46	42.54	198
21	43.238	21	59.71	17	33.656	57	65.67	284	17.064	10	53.31	142	19.329	14	40.56	207
31	43.259	52	59.54	32	33.599	5	62.83	293	17.074	48	51.89	162	19.315	21	38.49	205
Febr. 10	43.311	83	59.22	49	33.594	49	59.90	289	17.122	86	50.27	179	19.336	56	36.44	196
20	43.394	115	58.73	66	33.643	105	57.01	275	17.208	124	48.48	191	19.392	93	34.48	178
März 1	43.509	146	58.07	84	33.748	161	54.26	249	17.332	162	46.57	202	19.485	131	32.70	151
11	43.655	177	57.23	103	33.909	214	51.77	212	17.494	200	44.55	209	19.616	168	31.19	117
21	43.832	207	56.20	119	34.123	264	49.65	167	17.694	235	42.46	211	19.784	203	30.02	78
31	44.039	235	55.01	136	34.387	309	47.98	117	17.929	269	40.35	211	19.987	236	29.24	35
Apr. 10	44.274	261	53.65	149	34.696	346	46.81	61	18.198	299	38.24	206	20.223	266	28.89	11
20	44.535	282	52.16	159	35.042	375	46.20	3	18.497	326	36.18	196	20.489	290	29.00	56
30	44.817	300	50.57	166	35.417	393	46.17	55	18.823	346	34.22	182	20.779	307	29.56	101
Mai 10	45.117	310	48.91	167	35.810	401	46.72	110	19.169	360	32.40	163	21.086	317	30.57	142
20	45.427	314	47.24	165	36.211	398	47.82	162	19.529	366	30.77	140	21.403	319	31.99	178
30	45.741	309	45.59	157	36.609	384	49.44	208	19.895	364	29.37	114	21.722	312	33.77	210
Juni 9	46.050	298	44.02	145	36.993	360	51.52	249	20.259	351	28.23	84	22.034	299	35.87	235
19	46.348	278	42.57	129	37.353	326	54.01	282	20.610	330	27.39	52	22.333	276	38.22	254
29	46.626	251	41.28	110	37.679	283	56.83	308	20.940	301	26.87	18	22.609	246	40.76	266
Juli 9	46.877	218	40.18	88	37.962	234	59.91	326	21.241	262	26.69	14	22.855	210	43.42	271
19	47.095	178	39.30	65	38.196	179	63.17	337	21.503	217	26.83	47	23.065	169	46.13	270
29	47.273	135	38.65	41	38.375	121	66.54	340	21.720	167	27.30	76	23.234	125	48.83	263
Aug. 8	47.408	90	38.24	17	38.496	61	69.94	334	21.887	113	28.06	102	23.359	79	51.46	250
17*)	[17] 47.498	43	38.07	4	[17] 38.557	1	73.28	323	[19] 22.000	57	29.08	125	[19] 23.438	32	53.96	233
27	47.541	3	38.11	25	38.558	56	76.51	304	22.057	2	30.33	140	23.470	13	56.29	212
Sept. 6	47.538	44	38.36	41	38.502	109	79.55	280	22.059	49	31.73	150	23.457	55	58.41	187
16	47.494	81	38.77	55	38.393	156	82.35	250	22.010	96	33.23	152	23.402	91	60.28	158
26	47.413	112	39.32	64	38.237	197	84.85	214	21.914	136	34.75	149	23.311	121	61.86	127
Okt. 6	47.301	134	39.96	69	38.040	229	86.99	174	21.778	166	36.24	138	23.190	146	63.13	95
16	47.167	149	40.65	72	37.811	252	88.73	129	21.612	187	37.62	121	23.044	162	64.08	61
26	47.018	155	41.37	70	37.559	267	90.02	81	21.425	198	38.83	99	22.882	171	64.69	25
Nov. 5	46.863	153	42.07	66	37.292	272	90.83	31	21.227	198	39.82	73	22.711	172	64.94	12
15	46.710	144	42.73	59	37.020	269	91.14	22	21.029	190	40.55	44	22.539	167	64.82	48
25	46.566	128	43.32	52	36.751	258	90.92	74	20.839	172	40.99	13	22.372	156	64.34	82
Dez. 5	46.438	107	43.84	42	36.493	237	90.18	124	20.667	148	41.12	18	22.216	140	63.52	116
15	46.331	84	44.26	31	36.256	210	88.94	172	20.519	119	40.94	48	22.076	119	62.36	146
25	46.247	56	44.57	20	36.046	176	87.22	214	20.400	87	40.46	77	21.957	94	60.90	172
35	46.191		44.77		35.870		85.08		20.313		39.69		21.863		59.18	
Mittl. Ort	43.880		61.69		34.408		52.73		18.104		52.51		19.777		31.58	
sec δ, tg δ	1.042		−0.294		1.525		+1.152		1.263		−0.771		1.109		+0.480	
a, a'	+3.3		+16.6		+2.2		+16.6		+3.6		+16.9		+2.7		+16.9	
b, b'	−0.02		+ 0.56		+0.06		+ 0.56		−0.04		+ 0.54		+0.03		+ 0.54	

[1]) Die jährliche Parallaxe (0".114) ist bereits berücksichtigt.

*) Bei Stern 822) und 823) lies Aug. 18.

Tag	827) α Aquarii AR.		827) α Aquarii Dekl.		830) 20 Cephei AR.		830) 20 Cephei Dekl.	
1940	22h 2m		−0° 36′		22h 3m		+62° 29′	
	s		″		s		″	
Jan. 1	41.775	55	37.86	83	10.38	29	53.73	222
11	41.720	30	38.69	79	10.09	22	51.51	263
21	41.690	3	39.48	73	9.87	16	48.88	292
31	41.687	25	40.21	62	9.71	9	45.96	310
Febr. 10	41.712	55	40.83	47	9.62	0	42.86	317
20	41.767	86	41.30	27	9.62	8	39.69	311
März 1	41.853	117	41.57	5	9.70	17	36.58	292
11	41.970	150	41.62	21	9.87	24	33.66	261
21	42.120	182	41.41	47	10.11	33	31.05	220
31	42.302	211	40.94	76	10.44	39	28.85	171
Apr. 10	42.513	240	40.18	103	10.83	45	27.14	116
20	42.753	263	39.15	127	11.28	49	25.98	58
30	43.016	283	37.88	150	11.77	52	25.40	3
Mai 10	43.299	296	36.38	167	12.29	53	25.43	63
20	43.595	302	34.71	181	12.82	53	26.06	121
30	43.897	301	32.90	190	13.35	52	27.27	175
Juni 9	44.198	291	31.00	192	13.87	48	29.02	223
19	44.489	275	29.08	189	14.35	44	31.25	264
29	44.764	250	27.19	182	14.79	39	33.89	300
Juli 9	45.014	219	25.37	170	15.18	32	36.89	327
19	45.233	184	23.67	155	15.50	25	40.16	347
29	45.417	143	22.12	136	15.75	17	43.63	358
Aug. 8	45.560	100	20.76	115	15.92	9	47.21	362
18	45.660	57	19.61	93	16.01	2	50.83	358
27	22 45.717	14	18.68	71	22 16.03	7	54.41	347
Sept. 6	45.731	26	17.97	48	15.96	14	57.88	327
16	45.705	62	17.49	27	15.82	21	61.15	302
26	45.643	92	17.22	8	15.61	27	64.17	269
Okt. 6	45.551	115	17.14	11	15.34	31	66.86	231
16	45.436	132	17.25	26	15.03	36	69.17	187
26	45.304	140	17.51	40	14.67	39	71.04	137
Nov. 5	45.164	142	17.91	53	14.28	41	72.41	84
15	45.022	137	18.44	63	13.87	41	73.25	28
25	44.885	127	19.07	72	13.46	41	73.53	30
Dez. 5	44.758	112	19.79	78	13.05	39	73.23	88
15	44.646	92	20.57	83	12.66	36	72.35	144
25	44.554	71	21.40	85	12.30	32	70.91	196
35	44.483		22.25		11.98		68.95	
Mittl. Ort	42.136		43.42		10.92		33.07	
sec δ, tg δ	1.000		−0.011		2.165		+1.920	
a, *a′*	+3.1		+17.5		+1.8		+17.5	
b, *b′*	0.00		+ 0.49		+0.11		+ 0.49	

Tag	828) ι Aquarii AR.		828) ι Aquarii Dekl.		829) α Gruis AR.		829) α Gruis Dekl.	
1940	22h 3m		−14° 9′		22h 4m		−47° 14′	
	s		″		s		″	
Jan. 1	11.421	55	39.73	23	26.440	104	74.25	134
11	11.366	28	39.96	10	26.336	62	72.91	165
21	11.338	1	40.06	5	26.274	18	71.26	193
31	11.339	29	40.01	20	26.256	26	69.33	214
Febr. 10	11.368	60	39.81	38	26.282	72	67.19	232
20	11.428	90	39.43	56	26.354	116	64.87	245
März 1	11.518	123	38.87	76	26.470	162	62.42	253
11	11.641	155	38.11	95	26.632	206	59.89	256
21	11.796	187	37.16	116	26.838	249	57.33	254
31	11.983	217	36.00	133	27.087	290	54.79	247
Apr. 10	12.200	245	34.67	149	27.377	326	52.32	236
20	12.445	271	33.18	163	27.703	359	49.96	218
30	12.716	290	31.55	171	28.062	384	47.78	196
Mai 10	13.006	304	29.84	176	28.446	403	45.82	170
20	13.310	310	28.08	176	28.849	413	44.12	138
30	13.620	311	26.32	171	29.262	412	42.74	104
Juni 9	13.931	302	24.61	160	29.674	402	41.70	67
19	14.233	285	23.01	147	30.076	381	41.03	28
29	14.518	261	21.54	129	30.457	349	40.75	12
Juli 9	14.779	230	20.25	108	30.806	309	40.87	50
19	15.009	193	19.17	85	31.115	260	41.37	87
29	15.202	152	18.32	60	31.375	204	42.24	121
Aug. 8	15.354	108	17.72	36	31.579	143	43.45	149
18	15.462	62	17.36	12	31.722	80	44.94	173
27	22 15.524	17	17.24	9	22 31.802	16	46.67	188
Sept. 6	15.541	25	17.33	29	31.818	45	48.55	197
16	15.516	62	17.62	45	31.773	100	50.52	197
26	15.454	94	18.07	57	31.673	150	52.49	189
Okt. 6	15.360	120	18.64	66	31.523	189	54.38	173
16	15.240	137	19.30	70	31.334	218	56.11	149
26	15.103	145	20.00	72	31.116	235	57.60	119
Nov. 5	14.958	148	20.72	70	30.881	241	58.79	84
15	14.810	142	21.42	66	30.640	235	59.63	46
25	14.668	131	22.08	60	30.405	219	60.09	6
Dez. 5	14.537	114	22.68	52	30.186	195	60.15	35
15	14.423	94	23.20	43	29.991	165	59.80	74
25	14.329	71	23.63	31	29.826	128	59.06	111
35	14.258		23.94		29.698		57.95	
Mittl. Ort	11.906		41.58		27.637		68.60	
sec δ, tg δ	1.031		−0.252		1.473		−1.082	
a, *a′*	+3.2		+17.5		+3.8		+17.6	
b, *b′*	−0.01		+ 0.49		−0.06		+ 0.48	

Scheinbare Sternörter 1940

Tag	834) ϑ Pegasi AR.		834) ϑ Pegasi Dekl.		835) π Pegasi AR.		835) π Pegasi Dekl.	
1940	$22^h\ 7^m$		$+5°\ 54'$		$22^h\ 7^m$		$+32°\ 52'$	
	s		"		s		"	
Jan. 1	10.038	61	14.59	108	18.935	104	74.04	190
11	9.977	37	13.51	109	18.831	76	72.14	212
21	9.940	10	12.42	107	18.755	42	70.02	227
31	9.930	19	11.35	99	18.713	6	67.75	231
Febr. 10	9.949	48	10.36	85	18.707	32	65.44	227
20	9.997	80	9.51	67	18.739	74	63.17	212
März 1	10.077	112	8.84	43	18.813	115	61.05	188
11	10.189	145	8.41	15	18.928	158	59.17	156
21	10.334	178	8.26	15	19.086	198	57.61	117
31	10.512	210	8.41	46	19.284	236	56.44	73
Apr. 10	10.722	238	8.87	78	19.520	270	55.71	25
20	10.960	263	9.65	109	19.790	298	55.46	24
30	11.223	282	10.74	137	20.088	319	55.70	73
Mai 10	11.505	297	12.11	161	20.407	332	56.43	119
20	11.802	303	13.72	181	20.739	337	57.62	162
30	12.105	301	15.53	195	21.076	333	59.24	199
Juni 9	12.406	292	17.48	204	21.409	320	61.23	232
19	12.698	276	19.52	208	21.729	297	63.55	257
29	12.974	252	21.60	206	22.026	268	66.12	275
Juli 9	13.226	221	23.66	198	22.294	232	68.87	287
19	13.447	185	25.64	187	22.526	190	71.74	293
29	13.632	145	27.51	171	22.716	144	74.67	290
Aug. 8	13.777	103	29.22	152	22.860	96	77.57	282
18	13.880	54	30.74	132	22.956	48	80.39	269
27	[23] 13.939	17	32.06	109	[23] 23.004	0	83.08	250
Sept. 6	13.956	24	33.15	86	23.004	44	85.58	226
16	13.932	59	34.01	63	22.960	84	87.84	199
26	13.873	89	34.64	40	22.876	118	89.83	168
Okt. 6	13.784	113	35.04	18	22.758	146	91.51	133
16	13.671	130	35.22	3	22.612	166	92.84	96
26	13.541	139	35.19	23	22.446	180	93.80	57
Nov. 5	13.402	142	34.96	41	22.266	185	94.37	17
15	13.260	138	34.55	58	22.081	184	94.54	25
25	13.122	129	33.97	74	21.897	177	94.29	65
Dez. 5	12.993	116	33.23	87	21.720	164	93.64	106
15	12.877	97	32.36	99	21.556	146	92.58	142
25	12.780	77	31.37	106	21.410	122	91.16	174
35	12.703		30.31		21.288		89.42	
Mittl. Ort	10.335		7.31		19.155		59.41	
sec δ, tg δ	1.005		+0.103		1.191		+0.647	
a, *a*′	+3.0		+17.7		+2.7		+17.7	
b, *b*′	+0.01		+ 0.47		+0.04		+ 0.47	

Tag	837) 24 Cephei AR.		837) 24 Cephei Dekl.		836) ζ Cephei AR.		836) ζ Cephei Dekl.	
1940	$22^h\ 8^m$		$+72°\ 2'$		$22^h\ 8^m$		$+57°\ 54'$	
	s		"		s		"	
Jan. 1	38.61	50	65.85	210	45.746	239	38.11	218
11	38.11	40	63.75	255	45.507	190	35.93	255
21	37.71	30	61.20	291	45.317	134	33.38	284
31	37.41	18	58.29	314	45.183	70	30.54	302
Febr. 10	37.23	6	55.15	326	45.113	2	27.52	308
20	37.17	7	51.89	325	45.111	70	24.44	301
März 1	37.24	20	48.64	310	45.181	142	21.43	281
11	37.44	33	45.54	283	45.323	213	18.62	252
21	37.77	45	42.71	245	45.536	279	16.10	212
31	38.22	55	40.26	198	45.815	340	13.98	163
Apr. 10	38.77	63	38.28	145	46.155	391	12.35	110
20	39.40	69	36.83	87	46.546	431	11.25	52
30	40.09	74	35.96	26	46.977	460	10.73	8
Mai 10	40.83	76	35.70	36	47.437	475	10.81	66
20	41.59	75	36.06	96	47.912	477	11.47	123
30	42.34	73	37.02	152	48.389	465	12.70	175
Juni 9	43.07	69	38.54	203	48.854	440	14.45	222
19	43.76	61	40.57	249	49.294	404	16.67	263
29	44.37	54	43.06	288	49.698	357	19.30	296
Juli 9	44.91	45	45.94	321	50.055	302	22.26	323
19	45.36	34	49.15	344	50.357	239	25.49	341
29	45.70	23	52.59	361	50.596	171	28.90	352
Aug. 8	45.93	12	56.20	369	50.767	102	32.42	355
18	46.05	0	59.89	370	50.869	31	35.97	350
27	[24] 46.05	11	63.59	362	[24] 50.900	38	39.47	337
Sept. 6	45.94	22	67.21	347	50.862	104	42.84	319
16	45.72	32	70.68	325	50.758	163	46.03	294
26	45.40	41	73.93	295	50.595	216	48.97	261
Okt. 6	44.99	49	76.88	259	50.379	260	51.58	223
16	44.50	55	79.47	216	50.119	297	53.81	180
26	43.95	61	81.63	168	49.822	323	55.61	132
Nov. 5	43.34	64	83.31	113	49.499	339	56.93	80
15	42.70	66	84.44	56	49.160	345	57.73	25
25	42.04	66	85.00	4	48.815	341	57.98	31
Dez. 5	41.38	64	84.96	65	48.474	327	57.67	87
15	40.74	61	84.31	124	48.147	302	56.80	141
25	40.13	54	83.07	181	47.845	268	55.39	191
35	39.59		81.26		47.577		53.48	
Mittl. Ort	39.47		43.81		46.120		18.08	
sec δ, tg δ	3.244		+3.086		1.882		+1.594	
a, *a*′	+1.1		+17.7		+2.1		+17.7	
b, *b*′	+0.18		+ 0.47		+0.09		+ 0.47	

Tag		840) ϑ Aquarii AR.	Δ	840) ϑ Aquarii Dekl.	Δ	841) α Tucanae AR.	Δ	841) α Tucanae Dekl.	Δ
1940		$22^h\ 13^m$		$-8°\ 4'$		$22^h\ 14^m$		$-60°\ 33'$	
		s		"		s		"	
Jan.	1	39.736	61	54.83	50	22.67	20	42.41	186
	11	39.675	37	55.33	41	22.47	13	40.55	222
	21	39.638	10	55.74	30	22.34	7	38.33	254
	31	39.628	17	56.04	16	22.27	1	35.79	278
Febr.	10	39.645	46	56.20	1	22.26	6	33.01	296
	20	39.691	78	56.19	20	22.32	12	30.05	306
März	1	39.769	109	55.99	42	22.44	18	26.99	311
	11	39.878	142	55.57	64	22.62	25	23.88	308
	21	40.020	174	54.93	87	22.87	31	20.80	300
	31	40.194	205	54.06	109	23.18	36	17.80	284
Apr.	10	40.399	235	52.97	131	23.54	42	14.96	263
	20	40.634	261	51.66	150	23.96	46	12.33	237
	30	40.895	282	50.16	164	24.42	49	9.96	205
Mai	10	41.177	297	48.52	176	24.91	52	7.91	168
	20	41.474	305	46.76	181	25.43	53	6.23	128
	30	41.779	306	44.95	183	25.96	54	4.95	85
Juni	9	42.085	299	43.12	179	26.50	52	4.10	38
	19	42.384	284	41.33	170	27.02	50	3.72	8
	29	42.668	261	39.63	156	27.52	46	3.80	54
Juli	9	42.929	232	38.07	139	27.98	41	4.34	98
	19	43.161	197	36.68	120	28.39	35	5.32	140
	29	43.358	157	35.48	97	28.74	28	6.72	176
Aug.	8	43.515	114	34.51	74	29.02	19	8.48	206
	18	43.629	70	33.77	50	29.21	11	10.54	230
	27	[25] 43.699	27	33.27	27	[25] 29.32	3	12.84	244
Sept.	6	43.726	14	33.00	6	29.35	6	15.28	249
	16	43.712	52	32.94	13	29.29	14	17.77	245
	26	43.660	84	33.07	29	29.15	21	20.22	230
Okt.	6	43.576	108	33.36	43	28.94	27	22.52	206
	16	43.468	127	33.79	53	28.67	31	24.58	174
	26	43.341	137	34.32	60	28.36	35	26.32	134
Nov.	5	43.204	140	34.92	65	28.01	36	27.66	89
	15	43.064	138	35.57	67	27.65	35	28.55	39
	25	42.926	128	36.24	68	27.30	35	28.94	12
Dez.	5	42.798	115	36.92	65	26.95	31	28.82	63
	15	42.683	96	37.57	62	26.64	27	28.19	112
	25	42.587	76	38.19	57	26.37	23	27.07	158
	35	42.511		38.76		26.14		25.49	
Mittl. Ort		40.110		57.94		24.56		34.09	
sec δ, tg δ		1.010		−0.142		2.035		−1.772	
a, *a′*		+3.2		+17.9		+4.1		+18.0	
b, *b′*		−0.01		+ 0.45		−0.11		+ 0.44	

Tag		842) γ Aquarii AR.	Δ	842) γ Aquarii Dekl.	Δ	844) β Lacertae AR.	Δ	844) β Lacertae Dekl.	Δ
1940		$22^h\ 18^m$		$-1°\ 40'$		$22^h\ 21^m$		$+51°\ 55'$	
		s		"		s		"	
Jan.	1	33.144	66	80.34	77	11.561	201	59.64	203
	11	33.078	42	81.11	72	11.360	162	57.61	240
	21	33.036	17	81.83	64	11.198	116	55.21	267
	31	33.019	11	82.47	53	11.082	66	52.54	285
Febr.	10	33.030	39	83.00	38	11.016	9	49.69	291
	20	33.069	71	83.38	19	11.007	50	46.78	285
März	1	33.140	102	83.57	3	11.057	112	43.93	267
	11	33.242	135	83.54	28	11.169	173	41.26	239
	21	33.377	168	83.26	55	11.342	232	38.87	200
	31	33.545	200	82.71	81	11.574	286	36.87	155
Apr.	10	33.745	230	81.90	107	11.860	334	35.32	103
	20	33.975	256	80.83	131	12.194	372	34.29	48
	30	34.231	278	79.52	153	12.566	402	33.81	9
Mai	10	34.509	293	77.99	169	12.968	420	33.90	65
	20	34.802	302	76.30	183	13.388	426	34.55	120
	30	35.104	304	74.47	190	13.814	420	35.75	170
Juni	9	35.408	297	72.57	192	14.234	403	37.45	215
	19	35.705	282	70.65	188	14.637	375	39.60	254
	29	35.987	260	68.77	181	15.012	337	42.14	286
Juli	9	36.247	232	66.96	169	15.349	291	45.00	312
	19	36.479	197	65.27	152	15.640	238	48.12	329
	29	36.676	157	63.75	132	15.878	181	51.41	338
Aug.	8	36.833	116	62.43	112	16.059	119	54.79	341
	18	36.949	73	61.31	89	16.178	58	58.20	337
	27	[26] 37.022	30	60.42	66	[27] 16.236	3	61.57	324
Sept.	6	37.052	11	59.76	43	16.233	60	64.81	306
	16	37.041	47	59.33	22	16.173	113	67.87	281
	26	36.994	78	59.11	3	16.060	160	70.68	251
Okt.	6	36.916	104	59.08	15	15.900	201	73.19	215
	16	36.812	122	59.23	31	15.699	233	75.34	173
	26	36.690	133	59.54	43	15.466	257	77.07	128
Nov.	5	36.557	137	59.97	54	15.209	272	78.35	79
	15	36.420	136	60.51	64	14.937	279	79.14	27
	25	36.284	127	61.15	71	14.658	278	79.41	27
Dez.	5	36.157	115	61.86	75	14.380	268	79.14	80
	15	36.042	99	62.61	79	14.112	250	78.34	130
	25	35.943	80	63.40	79	13.862	223	77.04	178
	35	35.863		64.19		13.639		75.26	
Mittl. Ort		33.438		85.13		11.728		40.56	
sec δ, tg δ		1.000		−0.029		1.622		+1.277	
a, *a′*		+3.1		+18.1		+2.4		+18.2	
b, *b′*		0.00		+ 0.43		+0.08		+ 0.42	

Tag	848) α Lacertae AR.	Δ	848) Dekl.	Δ	850) η Aquarii AR.	Δ	850) Dekl.	Δ	852) 10 Lacertae AR.	Δ	852) Dekl.	Δ	855) ζ Pegasi AR.	Δ	855) Dekl.	Δ
1940	22ʰ 28ᵐ		+49° 58′		22ʰ 32ᵐ		−0° 25′		22ʰ 36ᵐ		+38° 44′		22ʰ 38ᵐ		+10° 31′	
Jan. 1	48.768	193	43.62	194	16.167	74	33.52	79	33.860	142	31.08	177	27.976	85	11.47	114
11	48.575	158	41.68	231	16.093	53	34.31	76	33.718	117	29.31	206	27.891	64	10.33	120
21	48.417	116	39.37	258	16.040	30	35.07	70	33.601	85	27.25	228	27.827	41	9.13	122
31	48.301	69	36.79	276	16.010	3	35.77	58	33.516	48	24.97	240	27.786	15	7.91	117
Febr. 10	48.232	16	34.03	283	16.007	25	36.35	44	33.468	8	22.57	243	27.771	15	6.74	107
20	48.216	40	31.20	277	16.032	56	36.79	25	33.460	37	20.14	235	27.786	46	5.67	90
März 1	48.256	99	28.43	261	16.088	88	37.04	4	33.497	83	17.79	218	27.832	80	4.77	69
11	48.355	158	25.82	234	16.176	122	37.08	22	33.580	130	15.61	191	27.912	115	4.08	43
21	48.513	215	23.48	197	16.298	155	36.86	48	33.710	178	13.70	155	28.027	151	3.65	12
31	48.728	269	21.51	153	16.453	189	36.38	75	33.888	223	12.15	113	28.178	186	3.53	20
Apr. 10	48.997	316	19.98	103	16.642	221	35.63	102	34.111	264	11.02	66	28.364	219	3.73	54
20	49.313	355	18.95	48	16.863	248	34.61	127	34.375	299	10.36	17	28.583	249	4.27	88
30	49.668	385	18.47	7	17.111	272	33.34	150	34.674	327	10.19	34	28.832	273	5.15	119
Mai 10	50.053	405	18.54	63	17.383	290	31.84	168	35.001	347	10.53	83	29.105	292	6.34	148
20	50.458	414	19.17	116	17.673	301	30.16	183	35.348	357	11.36	130	29.397	303	7.82	172
30	50.872	410	20.33	166	17.974	304	28.33	191	35.705	358	12.66	174	29.700	307	9.54	193
Juni 9	51.282	396	21.99	210	18.278	300	26.42	195	36.063	349	14.40	211	30.007	302	11.47	207
19	51.678	371	24.09	249	18.578	287	24.47	194	36.412	330	16.51	243	30.309	290	13.54	215
29	52.049	337	26.58	281	18.865	267	22.53	187	36.742	303	18.94	269	30.599	270	15.69	218
Juli 9	52.386	293	29.39	306	19.132	240	20.66	175	37.045	269	21.63	288	30.869	243	17.87	216
19	52.679	243	32.45	323	19.372	207	18.91	160	37.314	228	24.51	299	31.112	209	20.03	208
29	52.922	188	35.68	333	19.579	169	17.31	142	37.542	182	27.50	304	31.321	172	22.11	196
Aug. 8	53.110	131	39.01	337	19.748	128	15.89	120	37.724	133	30.54	303	31.493	131	24.07	180
18	53.241	72	42.38	332	19.876	86	14.69	98	37.857	82	33.57	295	31.624	89	25.87	161
28	53.313	13	45.70	320	19.962	43	13.71	75	37.939	33	36.52	280	31.713	46	27.48	139
Sept. 6	53.326	42	48.90	303	20.005	2	12.96	52	37.972	14	39.32	261	31.759	5	28.87	116
16	53.284	95	51.93	278	20.007	34	12.44	29	37.958	58	41.93	237	31.764	31	30.03	93
26	53.189	140	54.71	250	19.973	67	12.15	9	37.900	98	44.30	208	31.733	64	30.96	68
Okt. 6	53.049	179	57.21	214	19.906	93	12.06	9	37.802	130	46.38	175	31.669	90	31.64	44
16	52.870	212	59.35	174	19.813	113	12.15	26	37.672	157	48.13	138	31.579	111	32.08	20
26	52.658	236	61.09	130	19.700	127	12.41	41	37.515	176	49.51	99	31.468	126	32.28	2
Nov. 5	52.422	252	62.39	82	19.573	132	12.82	52	37.339	190	50.50	57	31.342	134	32.26	25
15	52.170	259	63.21	32	19.441	133	13.34	62	37.149	195	51.07	13	31.208	135	32.01	45
25	51.911	260	63.53	20	19.308	128	13.96	71	36.954	196	51.20	32	31.073	133	31.56	64
Dez. 5	51.651	253	63.33	72	19.180	118	14.67	76	36.758	189	50.88	75	30.940	124	30.92	83
15	51.398	237	62.61	123	19.062	104	15.43	81	36.569	177	50.13	118	30.816	113	30.09	97
25	51.161	214	61.38	169	18.958	87	16.24	82	36.392	158	48.95	157	30.703	97	29.12	110
35	50.947		59.69		18.871		17.06		36.234		47.38		30.606		28.02	
Mittl. Ort	48.847		24.89		16.384		38.26		33.860		14.98		28.079		3.54	
sec δ, tg δ	1.555		+1.191		1.000		−0.007		1.282		+0.802		1.017		+0.186	
a, *a′*	+2.5		+18.5		+3.1		+18.6		+2.7		+18.7		+3.0		+18.8	
b, *b′*	+0.07		+ 0.39		0.00		+ 0.37		+0.05		+ 0.36		+0.01		+ 0.35	

Tag	856) β Gruis AR.		856) β Gruis Dekl.		857) η Pegasi AR.		857) η Pegasi Dekl.		859) λ Pegasi AR.		859) λ Pegasi Dekl.		860) ε Gruis AR.		860) ε Gruis Dekl.	
1940	22h 39m		−47° 11′		22h 40m		+29° 54′		22h 43m		+23° 14′		22h 44m		−51° 37′	
	s		"		s		"		s		"		s		"	
Jan. 1	4.581	143	64.07	112	11.151	118	38.83	161	38.270	105	69.69	145	55.269	171	67.36	125
11	4.438	106	62.95	148	11.033	95	37.22	183	38.165	84	68.24	162	55.098	132	66.11	164
21	4.332	68	61.47	180	10.938	68	35.39	199	38.081	60	66.62	173	54.966	90	64.47	199
31	4.264	27	59.67	209	10.870	37	33.40	206	38.021	31	64.89	177	54.876	44	62.48	229
Febr. 10	4.237	16	57.58	232	10.833	1	31.34	206	37.990	1	63.12	173	54.832	3	60.19	253
20	4.253	62	55.26	250	10.832	37	29.28	195	37.991	37	61.39	161	54.835	53	57.66	271
März 1	4.315	107	52.76	264	10.869	77	27.33	176	38.028	73	59.78	142	54.888	103	54.95	285
11	4.422	154	50.12	272	10.946	120	25.57	149	38.101	113	58.36	114	54.991	154	52.10	292
21	4.576	200	47.40	274	11.066	161	24.08	115	38.214	153	57.22	82	55.145	206	49.18	292
31	4.776	245	44.66	272	11.227	203	22.93	75	38.367	191	56.40	45	55.351	255	46.26	288
Apr. 10	5.021	288	41.94	264	11.430	240	22.18	32	38.558	227	55.95	4	55.606	301	43.38	277
20	5.309	327	39.30	250	11.670	273	21.86	13	38.785	259	55.91	37	55.907	344	40.61	261
30	5.636	359	36.80	230	11.943	300	21.99	59	39.044	285	56.28	78	56.251	381	38.00	238
Mai 10	5.995	385	34.50	205	12.243	320	22.58	103	39.329	305	57.06	117	56.632	409	35.62	210
20	6.380	403	32.45	176	12.563	330	23.61	143	39.634	317	58.23	153	57.041	430	33.52	177
30	6.783	410	30.69	141	12.893	333	25.04	180	39.951	321	59.76	184	57.471	440	31.75	139
Juni 9	7.193	409	29.28	104	13.226	327	26.84	212	40.272	316	61.60	210	57.911	439	30.36	98
19	7.602	395	28.24	63	13.553	311	28.96	238	40.588	302	63.70	231	58.350	426	29.38	55
29	7.997	372	27.61	21	13.864	288	31.34	256	40.890	281	66.01	245	58.776	403	28.83	11
Juli 9	8.369	337	27.40	22	14.152	256	33.90	269	41.171	252	68.46	252	59.179	367	28.72	34
19	8.706	295	27.62	62	14.408	220	36.59	276	41.423	218	70.98	254	59.546	322	29.06	78
29	9.001	244	28.24	101	14.628	179	39.35	275	41.641	179	73.52	251	59.868	269	29.84	118
Aug. 8	9.245	187	29.25	136	14.807	134	42.10	270	41.820	136	76.03	241	60.137	207	31.02	154
18	9.432	126	30.61	165	14.941	87	44.80	258	41.956	91	78.44	227	60.344	142	32.56	185
28	9.558	64	32.26	188	15.028	42	47.38	241	42.047	48	80.71	209	60.486	74	34.41	207
	31								1				2			
Sept. 6	9.622	1	34.14	203	15.070	2	49.79	221	42.095	6	82.80	187	60.560	7	36.48	223
16	9.623	57	36.17	209	15.068	43	52.00	196	42.101	33	84.67	164	60.567	58	38.71	229
26	9.566	109	38.26	208	15.025	78	53.96	169	42.068	67	86.31	136	60.509	117	41.00	225
Okt. 6	9.457	154	40.34	198	14.947	108	55.65	138	42.001	96	87.67	108	60.392	167	43.25	213
16	9.303	190	42.32	178	14.839	133	57.03	104	41.905	118	88.75	78	60.225	207	45.38	192
26	9.113	214	44.10	152	14.706	149	58.07	70	41.787	136	89.53	46	60.018	238	47.30	162
Nov. 5	8.899	230	45.62	119	14.557	161	58.77	32	41.651	145	89.99	14	59.780	256	48.92	127
15	8.669	233	46.81	82	14.396	166	59.09	5	41.506	150	90.13	17	59.524	262	50.19	85
25	8.436	227	47.63	41	14.230	164	59.04	42	41.356	149	89.96	50	59.262	258	51.04	40
Dez. 5	8.209	212	48.04	2	14.066	159	58.62	79	41.207	143	89.46	79	59.004	243	51.44	6
15	7.997	190	48.02	45	13.907	147	57.83	114	41.064	132	88.67	109	58.761	221	51.38	52
25	7.807	161	47.57	85	13.760	132	56.69	145	40.932	118	87.58	132	58.540	191	50.86	97
35	7.646		46.72		13.628		55.24		40.814		86.26		58.349		49.89	
Mittl. Ort	5.596		56.15		11.146		25.14		38.270		57.98		56.430		58.24	
sec δ, tg δ	1.472		−1.080		1.154		+0.575		1.088		+0.430		1.611		−1.263	
a, *a′*	+3.6		+18.8		+2.8		+18.8		+2.9		+18.9		+3.6		+19.0	
b, *b′*	−0.07		+ 0.35		+0.04		+ 0.34		+0.03		+ 0.33		−0.08		+ 0.32	

Scheinbare Sternörter 1940

Tag	863) ι Cephei AR.		863) ι Cephei Dekl.		864) λ Aquarii AR.		864) λ Aquarii Dekl.		865) ρ Indi AR.		865) ρ Indi Dekl.		866) δ Aquarii AR.		866) δ Aquarii Dekl.	
1940	$22^h\ 47^m$		$+65°\ 52'$		$22^h\ 49^m$		$-7°\ 53'$		$22^h\ 50^m$		$-70°\ 23'$		$22^h\ 51^m$		$-16°\ 8'$	
Jan. 1	$32^s.31$	39	$86''.27$	171	$28^s.886$	84	$55''.83$	52	$28^s.13$	40	$53''.09$	190	$27^s.784$	88	$26''.07$	22
11	31.92	34	84.56	219	28.802	64	56.35	41	27.73	33	51.19	235	27.696	69	26.29	4
21	31.58	27	82.37	259	28.738	43	56.76	29	27.40	25	48.84	275	27.627	45	26.33	14
31	31.31	20	79.78	289	28.695	17	57.05	14	27.15	15	46.09	305	27.582	19	26.19	33
Febr. 10	31.11	11	76.89	307	28.678	9	57.19	3	27.00	6	43.04	329	27.563	8	25.86	54
20	31.00	2	73.82	313	28.687	40	57.16	24	26.94	3	39.75	344	27.571	39	25.32	74
März 1	30.98	8	70.69	307	28.727	72	56.92	44	26.97	14	36.31	352	27.610	72	24.58	95
11	31.06	17	67.62	288	28.799	105	56.48	67	27.11	23	32.79	351	27.682	106	23.63	116
21	31.23	27	64.74	257	28.904	141	55.81	91	27.34	32	29.28	344	27.788	142	22.47	136
31	31.50	36	62.17	217	29.045	175	54.90	113	27.66	41	25.84	328	27.930	177	21.11	154
Apr. 10	31.86	44	60.00	170	29.220	209	53.77	135	28.07	49	22.56	306	28.107	211	19.57	170
20	32.30	50	58.30	116	29.429	239	52.42	155	28.56	57	19.50	277	28.318	243	17.87	183
30	32.80	55	57.14	58	29.668	266	50.87	171	29.13	63	16.73	243	28.561	270	16.04	192
Mai 10	33.35	58	56.56	1	29.934	286	49.16	182	29.76	68	14.30	202	28.831	291	14.12	196
20	33.93	60	56.57	59	30.220	301	47.34	190	30.44	71	12.28	158	29.122	307	12.16	194
30	34.53	59	57.16	116	30.521	307	45.44	192	31.15	73	10.70	109	29.429	314	10.22	189
Juni 9	35.12	58	58.32	169	30.828	306	43.52	188	31.88	73	9.61	59	29.743	314	8.33	178
19	35.70	55	60.01	217	31.134	296	41.64	180	32.61	72	9.02	6	30.057	305	6.55	161
29	36.25	49	62.18	259	31.430	279	39.84	168	33.33	67	8.96	47	30.362	287	4.94	141
Juli 9	36.74	44	64.77	296	31.709	255	38.16	150	34.00	62	9.43	97	30.649	264	3.53	118
19	37.18	36	67.73	323	31.964	223	36.66	129	34.62	54	10.40	144	30.913	232	2.35	92
29	37.54	29	70.96	344	32.187	187	35.37	106	35.16	45	11.84	188	31.145	194	1.43	64
Aug. 8	37.83	21	74.40	358	32.374	147	34.31	82	35.61	35	13.72	225	31.339	154	0.79	36
18	38.04	11	77.98	363	32.521	104	33.49	57	35.96	23	15.97	254	31.493	110	0.43	8
28	38.15	4	81.61	361	32.625	62	32.92	31	36.19	11	18.51	274	31.603	66	0.35	18
Sept. 6	[2] 38.19	5	85.22	352	[3] 32.687	20	32.61	8	[3] 36.30	1	21.25	285	[3] 31.669	23	0.53	41
16	38.14	14	88.74	335	32.707	18	32.53	13	36.29	13	24.10	284	31.692	18	0.94	60
26	38.00	20	92.09	310	32.689	52	32.66	31	36.16	24	26.94	272	31.674	53	1.54	75
Okt. 6	37.80	27	95.19	279	32.637	81	32.97	46	35.92	34	29.66	249	31.621	84	2.29	87
16	37.53	33	97.98	242	32.556	103	33.43	58	35.58	43	32.15	217	31.537	107	3.16	92
26	37.20	38	100.40	198	32.453	118	34.01	67	35.15	49	34.32	175	31.430	124	4.08	93
Nov. 5	36.82	42	102.38	148	32.335	128	34.68	71	34.66	54	36.07	126	31.306	134	5.01	91
15	36.40	45	103.86	94	32.207	131	35.39	74	34.12	55	37.33	71	31.172	138	5.92	84
25	35.95	45	104.80	37	32.076	129	36.13	73	33.57	56	38.04	14	31.034	135	6.76	74
Dez. 5	35.50	46	105.17	23	31.947	122	36.86	70	33.01	54	38.18	45	30.899	127	7.50	63
15	35.04	45	104.94	82	31.825	110	37.56	65	32.47	50	37.73	103	30.772	116	8.13	48
25	34.59	42	104.12	138	31.715	95	38.21	58	31.97	44	36.70	156	30.656	100	8.61	34
35	34.17		102.74		31.620		38.79		31.53		35.14		30.556		8.95	
Mittl. Ort	32.24		64.49		29.085		57.66		30.87		41.14		28.068		25.30	
sec δ, tg δ	2.448		+2.234		1.010		−0.139		2.980		−2.807		1.041		−0.289	
a, *a′*	+2.1		+19.1		+3.1		+19.1		+4.2		+19.1		+3.2		+19.2	
b, *b′*	+0.14		+ 0.31		−0.01		+ 0.30		−0.18		+ 0.30		−0.02		+ 0.29	

Tag	867) α Pisc. austr. AR.		867) Dekl.		869) ο Andromedae AR.		869) Dekl.		870) β Pegasi AR.		870) Dekl.		871) α Pegasi AR.		871) Dekl.	
1940	22h 54m		−29° 56′		22h 59m		+42° 0′		23h 0m		+27° 45′		23h 1m		+14° 52′	
	s		″		s		″		s		″		s		″	
Jan. 1	19.895	104	31.25	30	9.478	169	28.60	160	51.830	123	38.04	142	46.242	102	64.22	117
11	19.791	85	30.95	59	9.309	146	27.00	194	51.707	104	36.62	164	46.140	84	63.05	127
21	19.706	56	30.36	86	9.163	117	25.06	221	51.603	81	34.98	180	46.056	64	61.78	133
31	19.650	27	29.50	111	9.046	81	22.85	238	51.522	53	33.18	189	45.992	39	60.45	133
Febr. 10	19.623	4	28.39	135	8.965	40	20.47	247	51.469	21	31.29	189	45.953	11	59.12	126
20	19.627	37	27.04	157	8.925	5	18.00	244	51.448	15	29.40	181	45.942	20	57.86	113
März 1	19.664	74	25.47	177	8.930	54	15.56	232	51.463	55	27.59	164	45.962	56	56.73	93
11	19.738	112	23.70	193	8.984	106	13.24	210	51.518	96	25.95	140	46.018	92	55.80	69
21	19.850	150	21.77	207	9.090	158	11.14	178	51.614	139	24.55	109	46.110	131	55.11	40
31	20.000	188	19.70	217	9.248	207	9.36	139	51.753	181	23.46	73	46.241	168	54.71	6
Apr. 10	20.188	225	17.53	224	9.455	254	7.97	95	51.934	220	22.73	32	46.409	204	54.65	28
20	20.413	259	15.29	225	9.709	295	7.02	46	52.154	256	22.41	11	46.613	238	54.93	64
30	20.672	289	13.04	221	10.004	329	6.56	4	52.410	286	22.52	53	46.851	266	55.57	98
Mai 10	20.961	313	10.83	212	10.333	353	6.60	55	52.696	309	23.05	95	47.117	289	56.55	130
20	21.274	330	8.71	198	10.686	369	7.15	104	53.005	324	24.00	135	47.406	303	57.85	160
30	21.604	340	6.73	179	11.055	374	8.19	149	53.329	331	25.35	170	47.709	311	59.45	183
Juni 9	21.944	340	4.94	156	11.429	370	9.68	191	53.660	328	27.05	201	48.020	310	61.28	203
19	22.284	332	3.38	127	11.799	354	11.59	226	53.988	317	29.06	226	48.330	301	63.31	216
29	22.616	314	2.11	96	12.153	330	13.85	257	54.305	297	31.32	244	48.631	283	65.47	224
Juli 9	22.930	289	1.15	62	12.483	298	16.42	279	54.602	270	33.76	258	48.914	259	67.71	227
19	23.219	256	0.53	28	12.781	259	19.21	296	54.872	237	36.34	263	49.173	229	69.98	223
29	23.475	216	0.25	7	13.040	213	22.17	306	55.109	198	38.97	264	49.402	192	72.21	214
Aug. 8	23.691	171	0.32	41	13.253	165	25.23	309	55.307	156	41.61	259	49.594	153	74.35	202
18	23.862	124	0.73	70	13.418	114	28.32	305	55.463	111	44.20	249	49.747	111	76.37	185
28	23.986	75	1.43	98	13.532	63	31.37	295	55.574	67	46.69	233	49.858	69	78.22	165
	4				5				6				6			
Sept. 6	24.061	26	2.41	120	13.595	14	34.32	279	55.641	24	49.02	214	49.927	29	79.87	144
16	24.087	20	3.61	135	13.609	33	37.11	259	55.665	16	51.16	190	49.956	9	81.31	120
26	24.067	60	4.96	145	13.576	75	39.70	232	55.649	53	53.06	165	49.947	44	82.51	96
Okt. 6	24.007	95	6.41	147	13.501	112	42.02	202	55.596	84	54.71	137	49.903	72	83.47	70
16	23.912	124	7.88	144	13.389	143	44.04	167	55.512	110	56.08	105	49.831	96	84.17	45
26	23.788	143	9.32	134	13.246	167	45.71	128	55.402	129	57.13	73	49.735	113	84.62	20
Nov. 5	23.645	156	10.66	117	13.079	186	46.99	86	55.273	143	57.86	39	49.622	126	84.82	5
15	23.489	161	11.83	96	12.893	198	47.85	42	55.130	152	58.25	4	49.496	132	84.77	29
25	23.328	159	12.79	73	12.695	204	48.27	3	54.978	155	58.29	30	49.364	133	84.48	52
Dez. 5	23.169	150	13.52	46	12.491	203	48.24	50	54.823	152	57.99	65	49.231	130	83.96	74
15	23.019	136	13.98	17	12.288	196	47.74	95	54.671	146	57.34	98	49.101	123	83.22	93
25	22.883	119	14.15	12	12.092	183	46.79	137	54.525	134	56.36	127	48.978	111	82.29	110
35	22.764		14.03		11.909		45.42		54.391		55.09		48.867		81.19	
Mittl. Ort	20.376		26.42		9.280		11.79		51.692		25.26		46.180		55.47	
sec δ, tg δ	1.154		−0.576		1.346		+0.901		1.130		+0.526		1.035		+0.266	
a, *a′*	+3.3		+19.2		+2.8		+19.3		+2.9		+19.4		+3.0		+19.4	
b, *b′*	−0.04		+ 0.28		+0.06		+ 0.26		+0.03		+ 0.26		+0.02		+ 0.25	

Scheinbare Sternörter 1940

Tag	872) ϑ Gruis AR.		872) ϑ Gruis Dekl.		874) π Cephei AR.		874) π Cephei Dekl.		873) 88 Aquarii AR.		873) 88 Aquarii Dekl.		875) Br 3077 Cass[1]) AR.		875) Br 3077 Cass[1]) Dekl.	
1940	$23^h\,3^m$		$-43°\,50'$		$23^h\,5^m$		$+75°\,3'$		$23^h\,6^m$		$-21°\,29'$		$23^h\,10^m$		$+56°\,50'$	
	s		"		s		"		s		"		s		"	
Jan. 1	29.614	152	50.03	80	59.32	71	69.95	136	14.713	102	57.23	6	23.353	269	32.72	150
11	29.462	123	49.23	118	58.61	63	68.59	190	14.611	83	57.29	16	23.084	240	31.22	196
21	29.339	92	48.05	152	57.98	54	66.69	238	14.528	61	57.13	40	22.844	199	29.26	233
31	29.247	56	46.53	184	57.44	42	64.31	276	14.467	36	56.73	62	22.645	150	26.93	263
Febr. 10	29.191	18	44.69	210	57.02	28	61.55	304	14.431	7	56.11	85	22.495	92	24.30	281
20	29.173	23	42.59	234	56.74	13	58.51	318	14.424	23	55.26	108	22.403	27	21.49	288
März 1	29.196	66	40.25	252	56.61	3	55.33	320	14.447	57	54.18	129	22.376	43	18.61	283
11	29.262	111	37.73	264	56.64	18	52.13	309	14.504	92	52.89	149	22.419	115	15.78	267
21	29.373	157	35.09	272	56.82	34	49.04	286	14.596	129	51.40	168	22.534	187	13.11	239
31	29.530	202	32.37	275	57.16	48	46.18	253	14.725	167	49.72	183	22.721	257	10.72	202
Apr. 10	29.732	246	29.62	272	57.64	61	43.65	209	14.892	203	47.89	196	22.978	321	8.70	157
20	29.978	286	26.90	263	58.25	72	41.56	159	15.095	237	45.93	206	23.299	376	7.13	108
30	30.264	322	24.27	248	58.97	80	39.97	104	15.332	267	43.87	210	23.675	421	6.05	53
Mai 10	30.586	352	21.79	228	59.77	87	38.93	45	15.599	291	41.77	209	24.096	455	5.52	3
20	30.938	374	19.51	202	60.64	89	38.48	14	15.890	310	39.68	204	24.551	475	5.55	58
30	31.312	387	17.49	171	61.53	90	38.62	73	16.200	320	37.64	193	25.026	483	6.13	111
Juni 9	31.699	390	15.78	136	62.43	88	39.35	129	16.520	323	35.71	177	25.509	476	7.24	162
19	32.089	383	14.42	97	63.31	84	40.64	181	16.843	316	33.94	156	25.985	458	8.86	208
29	32.472	366	13.45	56	64.15	77	42.45	229	17.159	302	32.38	132	26.443	427	10.94	247
Juli 9	32.838	338	12.89	13	64.92	69	44.74	271	17.461	278	31.06	104	26.870	386	13.41	281
19	33.176	302	12.76	29	65.61	59	47.45	305	17.739	249	30.02	73	27.256	336	16.22	308
29	33.478	257	13.05	70	66.20	47	50.50	333	17.988	213	29.29	42	27.592	280	19.30	328
Aug. 8	33.735	206	13.75	108	66.67	35	53.83	355	18.201	172	28.87	11	27.872	218	22.58	340
18	33.941	151	14.83	141	67.02	22	57.38	367	18.373	128	28.76	20	28.090	154	25.98	345
28	34.092	93	16.24	168	67.24	10	61.05	372	18.501	83	28.96	48	28.244	88	29.43	343
Sept. 6*)	[6] 34.185	35	17.92	190	[7] 67.34	4	64.77	370	[7] 18.584	38	29.44	71	[8] 28.332	24	32.86	334
16	34.220	21	19.82	203	67.30	16	68.47	360	18.622	4	30.15	92	28.356	37	36.20	318
26	34.199	72	21.85	207	67.14	28	72.07	342	18.618	42	31.07	106	28.319	94	39.38	295
Okt. 6	34.127	116	23.92	202	66.86	40	75.49	316	18.576	75	32.13	115	28.225	146	42.33	267
16	34.011	154	25.94	190	66.46	50	78.65	283	18.501	101	33.28	118	28.079	192	45.00	231
26	33.857	182	27.84	169	65.96	58	81.48	242	18.400	122	34.46	115	27.887	230	47.31	191
Nov. 5	33.675	200	29.53	141	65.38	66	83.90	196	18.278	134	35.61	109	27.657	261	49.22	146
15	33.475	209	30.94	107	64.72	72	85.86	142	18.144	141	36.70	97	27.396	284	50.68	95
25	33.266	210	32.01	69	64.00	76	87.28	84	18.003	141	37.67	81	27.112	298	51.63	43
Dez. 5	33.056	202	32.70	29	63.24	78	88.12	24	17.862	136	38.48	63	26.814	304	52.06	13
15	32.854	188	32.99	12	62.46	77	88.36	38	17.726	126	39.11	43	26.510	300	51.93	67
25	32.666	167	32.87	53	61.69	75	87.98	100	17.600	112	39.54	21	26.210	287	51.26	120
35	32.499		32.34		60.94		86.98		17.488		39.75		25.923		50.06	
Mittl. Ort	30.374		41.30		58.90		46.94		14.993		54.19		22.980		12.65	
sec δ, tg δ	1.387		−0.960		3.880		+3.749		1.075		−0.394		1.828		+1.530	
a, *a′*	+3.4		+19.4		+1.9		+19.5		+3.2		+19.5		+2.6		+19.6	
b, *b′*	−0.06		+ 0.24		+0.24		+ 0.23		−0.03		+ 0.23		+0.10		+ 0.21	

[1]) Die jährliche Parallaxe (0.″145) ist bereits berücksichtigt.

*) Bei Stern 874), 873) und 875) lies Sept. 7.

Tag	877) γ Tucanae AR.	877) γ Tucanae Dekl.	879) γ Sculptoris AR.	879) γ Sculptoris Dekl.	880) τ Pegasi AR.	880) τ Pegasi Dekl.
1940	$23^h\ 13^m$	$-58°\ 33'$	$23^h\ 15^m$	$-32°\ 51'$	$23^h\ 17^m$	$+23°\ 24'$
	s	"	s	"	s	"
Jan. 1	55.102 256	65.69 124	34.883 127	39.47 30	40.032 122	53.24 125
11	54.846 217	64.45 172	34.756 106	39.17 62	39.910 106	51.99 145
21	54.629 172	62.73 212	34.650 82	38.55 94	39.804 87	50.54 157
31	54.457 121	60.61 248	34.568 55	37.61 122	39.717 62	48.97 164
Febr. 10	54.336 66	58.13 277	34.513 23	36.39 149	39.655 34	47.33 164
20	54.270 8	55.36 300	34.490 10	34.90 173	39.621 0	45.69 156
März 1	54.262 53	52.36 316	34.500 47	33.17 195	39.621 37	44.13 141
11	54.315 115	49.20 325	34.547 86	31.22 213	39.658 77	42.72 118
21	54.430 177	45.95 328	34.633 127	29.09 227	39.735 118	41.54 89
31	54.607 239	42.67 323	34.760 168	26.82 237	39.853 160	40.65 56
Apr. 10	54.846 298	39.44 311	34.928 207	24.45 243	40.013 200	40.09 19
20	55.144 354	36.33 294	35.135 246	22.02 244	40.213 237	39.90 21
30	55.498 402	33.39 269	35.381 279	19.58 239	40.450 269	40.11 60
Mai 10	55.900 443	30.70 238	35.660 308	17.19 229	40.719 294	40.71 98
20	56.343 475	28.32 202	35.968 329	14.90 214	41.013 312	41.69 134
30	56.818 494	26.30 161	36.297 342	12.76 192	41.325 321	43.03 166
Juni 9	57.312 502	24.69 116	36.639 348	10.84 166	41.646 323	44.69 194
19	57.814 497	23.53 68	36.987 343	9.18 136	41.969 315	46.63 215
29	58.311 478	22.85 18	37.330 330	7.82 102	42.284 300	48.78 232
Juli 9	58.789 447	22.67 31	37.660 307	6.80 65	42.584 276	51.10 242
19	59.236 401	22.98 80	37.967 276	6.15 28	42.860 245	53.52 246
29	59.637 345	23.78 125	38.243 239	5.87 10	43.105 210	55.98 245
Aug. 8	59.982 280	25.03 167	38.482 196	5.97 47	43.315 170	58.43 238
18	60.262 207	26.70 203	38.678 148	6.44 81	43.485 129	60.81 227
28	60.469 129	28.73 231	38.826 99	7.25 110	43.614 86	63.08 212
Sept. 7	60.598 51	31.04 250	$_{10}$38.925 49	8.35 135	$_{10}$43.700 44	65.20 192
16	$_{9}$60.649 27	33.54 260	38.974 2	9.70 153	43.744 4	67.12 170
26	60.622 101	36.14 259	38.976 42	11.23 164	43.748 31	68.82 145
Okt. 6	60.521 167	38.73 248	38.934 80	12.87 169	43.717 63	70.27 118
16	60.354 223	41.21 228	38.854 112	14.56 164	43.654 89	71.45 91
26	60.131 268	43.49 197	38.742 137	16.20 154	43.565 110	72.36 62
Nov. 5	59.863 301	45.46 158	38.605 154	17.74 137	43.455 125	72.98 31
15	59.562 320	47.04 113	38.451 163	19.11 114	43.330 136	73.29 1
25	59.242 326	48.17 64	38.288 165	20.25 87	43.194 141	73.30 29
Dez. 5	58.916 320	48.81 12	38.123 162	21.12 56	43.053 142	73.01 59
15	58.596 302	48.93 41	37.961 152	21.68 25	42.911 138	72.42 87
25	58.294 276	48.52 93	37.809 138	21.93 9	42.773 131	71.55 112
35	58.018	47.59	37.671	21.84	42.642	70.43
Mittl. Ort	56.418	53.58	35.305	32.74	39.808	42.14
sec δ, tg δ	1.917	−1.636	1.190	−0.646	1.090	+0.433
a, *a'*	+3.5	+19.6	+3.2	+19.7	+3.0	+19.7
b, *b'*	−0.11	+ 0.20	−0.04	+ 0.19	+0.03	+ 0.18

Tag	882) 4 Cassiopeiae				884) ϰ Piscium				885) 70 Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1940	$23^h\ 22^m$		+61° 57′		$23^h\ 23^m$		+0° 55′		$23^h\ 26^m$		+12° 25′	
	s		"		s		"		s		"	
Jan. 1	10.27	35	32.72	131	51.402	101	40.40	79	7.254	109	53.24	102
11	9.92	31	31.41	182	51.301	88	39.61	75	7.145	96	52.22	111
21	9.61	28	29.59	225	51.213	71	38.86	69	7.049	80	51.11	115
31	9.33	22	27.34	259	51.142	50	38.17	59	6.969	58	49.96	114
Febr. 10	9.11	15	24.75	283	51.092	25	37.58	46	6.911	33	48.82	107
20	8.96	7	21.92	296	51.067	3	37.12	29	6.878	2	47.75	95
März 1	8.89	0	18.96	297	51.070	35	36.83	8	6.876	31	46.80	78
11	8.89	9	15.99	284	51.105	69	36.75	15	6.907	67	46.02	55
21	8.98	18	13.15	262	51.174	107	36.90	40	6.974	105	45.47	27
31	9.16	26	10.53	228	51.281	144	37.30	68	7.079	145	45.20	2
Apr. 10	9.42	34	8.25	187	51.425	180	37.98	94	7.224	183	45.22	35
20	9.76	40	6.38	138	51.605	215	38.92	119	7.407	219	45.57	68
30	10.16	46	5.00	85	51.820	246	40.11	144	7.626	251	46.25	100
Mai 10	10.62	50	4.15	29	52.066	272	41.55	164	7.877	276	47.25	130
20	11.12	52	3.86	28	52.338	290	43.19	180	8.153	296	48.55	156
30	11.64	54	4.14	83	52.628	302	44.99	192	8.449	307	50.11	179
Juni 9	12.18	54	4.97	136	52.930	306	46.91	198	8.756	311	51.90	196
19	12.72	52	6.33	185	53.236	302	48.89	199	9.067	305	53.86	208
29	13.24	48	8.18	228	53.538	289	50.88	195	9.372	293	55.94	215
Juli 9	13.72	44	10.46	267	53.827	269	52.83	186	9.665	272	58.09	216
19	14.16	39	13.13	299	54.096	243	54.69	171	9.937	245	60.25	212
29	14.55	33	16.12	322	54.339	210	56.40	154	10.182	211	62.37	203
Aug. 8	14.88	26	19.34	340	54.549	173	57.94	133	10.393	175	64.40	189
18	15.14	19	22.74	351	54.722	134	59.27	111	10.568	135	66.29	173
28	15.33	11	26.25	353	54.856	93	60.38	87	10.703	95	68.02	153
Sept. 7	11 15.44	5	29.78	348	12 54.949	54	61.25	62	12 10.798	55	69.55	131
16	15.49	3	33.26	336	55.003	16	61.87	40	10.853	16	70.86	108
26	15.46	10	36.62	317	55.019	19	62.27	17	10.869	18	71.94	85
Okt. 6	15.36	16	39.79	291	55.000	49	62.44	4	10.851	48	72.79	61
16	15.20	22	42.70	260	54.951	74	62.40	21	10.803	74	73.40	37
26	14.98	26	45.30	220	54.877	94	62.19	37	10.729	94	73.77	15
Nov. 5	14.72	30	47.50	175	54.783	108	61.82	50	10.635	110	73.92	8
15	14.42	34	49.25	125	54.675	117	61.32	60	10.525	119	73.84	28
25	14.08	36	50.50	72	54.558	121	60.72	69	10.406	125	73.56	48
Dez. 5	13.72	38	51.22	15	54.437	121	60.03	74	10.281	126	73.08	67
15	13.34	37	51.37	42	54.316	116	59.29	79	10.155	123	72.41	82
25	12.97	37	50.95	98	54.200	109	58.50	79	10.032	117	71.59	97
35	12.60		49.97		54.091		57.71		9.915		70.62	
Mittl. Ort	9.68		11.71		51.329		36.95		7.065		45.98	
sec δ, tg δ	2.127		+1.877		1.000		+0.016		1.024		+0.220	
a, *a*′	+2.7		+19.8		+3.1		+19.8		+3.0		+19.8	
b, *b*′	+0.12		+ 0.16		0.00		+ 0.16		+0.01		+ 0.15	

Tag	891) ι Andromedae AR.		891) ι Andromedae Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.		893) γ Cephei AR.		893) γ Cephei Dekl.	
1940	23h 35m		+42° 56′		23h 36m		+5° 18′		23h 36m		+77° 17′	
	s		″		s		″		s		″	
Jan. 1	11.701	189	25.36	125	51.932	107	7.97	88	53.27	88	73.88	90
11	11.512	174	24.11	164	51.825	97	7.09	88	52.39	81	72.98	149
21	11.338	151	22.47	194	51.728	81	6.21	86	51.58	73	71.49	202
31	11.187	122	20.53	218	51.647	62	5.35	79	50.85	61	69.47	248
Febr. 10	11.065	85	18.35	233	51.585	38	4.56	69	50.24	46	66.99	282
20	10.980	42	16.02	237	51.547	11	3.87	55	49.78	29	64.17	306
März 1	10.938	7	13.65	233	51.536	22	3.32	35	49.49	11	61.11	318
11	10.945	60	11.32	217	51.558	57	2.97	13	49.38	7	57.93	315
21	11.005	114	9.15	192	51.615	94	2.84	13	49.45	26	54.78	301
31	11.119	169	7.23	160	51.709	133	2.97	41	49.71	44	51.77	276
Apr. 10	11.288	220	5.63	121	51.842	172	3.38	69	50.15	61	49.01	240
20	11.508	268	4.42	76	52.014	207	4.07	97	50.76	75	46.61	195
30	11.776	309	3.66	29	52.221	240	5.04	125	51.51	86	44.66	144
Mai 10	12.085	342	3.37	20	52.461	267	6.29	148	52.37	96	43.22	89
20	12.427	365	3.57	68	52.728	288	7.77	169	53.33	102	42.33	31
30	12.792	379	4.25	114	53.016	302	9.46	185	54.35	104	42.02	27
Juni 9	13.171	382	5.39	157	53.318	308	11.31	196	55.39	105	42.29	84
19	13.553	375	6.96	196	53.626	304	13.27	201	56.44	101	43.13	139
29	13.928	357	8.92	229	53.930	294	15.28	201	57.45	96	44.52	190
Juli 9	14.285	331	11.21	256	54.224	276	17.29	196	58.41	88	46.42	236
19	14.616	298	13.77	277	54.500	250	19.25	187	59.29	78	48.78	276
29	14.914	257	16.54	291	54.750	220	21.12	172	60.07	67	51.54	310
Aug. 8	15.171	212	19.45	299	54.970	184	22.84	155	60.74	53	54.64	337
18	15.383	164	22.44	301	55.154	146	24.39	134	61.27	40	58.01	357
28	15.547	114	25.45	296	55.300	106	25.73	112	61.67	25	61.58	369
Sept. 7	15.661	66	28.41	285	55.406	67	26.85	88	61.92	10	65.27	374
16	15.727	18	31.26	269	55.473	29	27.73	65	62.02	5	69.01	371
26	15.745	27	33.95	249	55.502	6	28.38	42	61.97	19	72.72	359
Okt. 6	15.718	66	36.44	222	55.496	36	28.80	20	61.78	33	76.31	341
16	15.652	102	38.66	191	55.460	62	29.00	0	61.45	46	79.72	314
26	15.550	133	40.57	157	55.398	84	29.00	19	60.99	58	82.86	279
Nov. 5	15.417	158	42.14	118	55.314	100	28.81	34	60.41	69	85.65	236
15	15.259	178	43.32	77	55.214	111	28.47	49	59.72	78	88.01	188
25	15.081	191	44.09	33	55.103	117	27.98	62	58.94	85	89.89	133
Dez. 5	14.890	200	44.42	13	54.986	120	27.36	72	58.09	90	91.22	73
15	14.690	201	44.29	57	54.866	118	26.64	80	57.19	92	91.95	11
25	14.489	198	43.72	101	54.748	114	25.84	85	56.27	91	92.06	52
35	14.291		42.71		54.634		24.99		55.36		91.54	
Mittl. Ort	11.179		8.86		51.742		3.49		51.87		50.87	
sec δ, tg δ	1.366		+0.930		1.004		+0.093		4.548		+4.436	
a, *a′*	+2.9		+19.9		+3.1		+19.9		+2.5		+19.9	
b, *b′*	+0.06		+ 0.11		+0.01		+ 0.10		+0.29		+ 0.10	

Scheinbare Sternörter 1940

Tag	894) ω^2 Aquarii AR.	Δ	894) Dekl.	Δ	895) 41 H. Cephei AR.	Δ	895) Dekl.	Δ	896) δ Sculptoris AR.	Δ	896) Dekl.	Δ
1940	$23^h\ 39^m$		$-14°\ 52'$		$23^h\ 45^m$		$+67°\ 28'$		$23^h\ 45^m$		$-28°\ 27'$	
	s		″		s		″		s		″	
Jan. 1	36.685	112	39.01	39	2.65	46	45.87	96	48.053	135	50.66	3
11	36.573	100	39.40	19	2.19	44	44.91	151	47.918	120	50.69	29
21	36.473	83	39.59	1	1.75	39	43.40	200	47.798	103	50.40	59
31	36.390	64	39.58	21	1.36	33	41.40	242	47.695	80	49.81	89
Febr. 10	36.326	40	39.37	44	1.03	25	38.98	274	47.615	54	48.92	118
20	36.286	12	38.93	66	0.78	16	36.24	295	47.561	24	47.74	144
März 1	36.274	19	38.27	90	0.62	6	33.29	303	47.537	10	46.30	169
11	36.293	54	37.37	112	0.56	5	30.26	299	47.547	48	44.61	191
21	36.347	92	36.25	134	0.61	15	27.27	284	47.595	87	42.70	210
31	36.439	130	34.91	155	0.76	25	24.43	257	47.682	129	40.60	225
Apr. 10	36.569	168	33.36	173	1.01	36	21.86	221	47.811	171	38.35	236
20	36.737	205	31.63	189	1.37	44	19.65	176	47.982	210	35.99	242
30	36.942	239	29.74	201	1.81	51	17.89	126	48.192	247	33.57	244
Mai 10	37.181	267	27.73	207	2.32	58	16.63	72	48.439	279	31.13	240
20	37.448	290	25.66	209	2.90	62	15.91	15	48.718	305	28.73	229
30	37.738	305	23.57	206	3.52	64	15.76	41	49.023	323	26.44	213
Juni 9	38.043	313	21.51	197	4.16	64	16.17	96	49.346	333	24.31	193
19	38.356	312	19.54	183	4.80	63	17.13	148	49.679	334	22.38	166
29	38.668	303	17.71	164	5.43	60	18.61	196	50.013	327	20.72	135
Juli 9	38.971	285	16.07	142	6.03	56	20.57	240	50.340	310	19.37	101
19	39.256	262	14.65	115	6.59	50	22.97	276	50.650	285	18.36	65
29	39.518	230	13.50	86	7.09	43	25.73	308	50.935	253	17.71	27
Aug. 8	39.748	194	12.64	55	7.52	36	28.81	331	51.188	215	17.44	11
18	39.942	155	12.09	25	7.88	28	32.12	348	51.403	173	17.55	47
28	40.097	113	11.84	4	8.16	19	35.60	357	51.576	128	18.02	80
Sept. 7	16 40.210	72	11.88	32	8.35	10	39.17	359	51.704	82	18.82	109
16*)	40.282	31	12.20	55	17 8.45	2	42.76	353	17 51.786	37	19.91	133
26	40.313	6	12.75	76	8.47	6	46.29	341	51.823	6	21.24	149
Okt. 6	40.307	39	13.51	90	8.41	15	49.70	320	51.817	44	22.73	160
16	40.268	68	14.41	101	8.26	22	52.90	292	51.773	76	24.33	162
26	40.200	91	15.42	106	8.04	29	55.82	258	51.697	104	25.95	159
Nov. 5	40.109	107	16.48	105	7.75	34	58.40	216	51.593	125	27.54	148
15	40.002	119	17.53	101	7.41	40	60.56	168	51.468	139	29.02	130
25	39.883	126	18.54	93	7.01	44	62.24	116	51.329	148	30.32	109
Dez. 5	39.757	127	19.47	81	6.57	46	63.40	58	51.181	150	31.41	82
15	39.630	125	20.28	67	6.11	48	63.98	0	51.031	148	32.23	54
25	39.505	119	20.95	51	5.63	48	63.98	60	50.883	140	32.77	24
35	39.386		21.46		5.15		63.38		50.743		33.01	
Mittl. Ort	36.695		36.53		1.57		24.26		48.218		43.66	
sec δ, tg δ	1.035		−0.266		2.610		+2.411		1.137		−0.542	
a, a'	+3.1		+20.0		+2.9		+20.0		+3.1		+20.0	
b, b'	−0.02		+ 0.09		+0.16		+ 0.07		−0.04		+ 0.06	

*) Bei Stern 895) und 896) lies Sept. 17.

Tag	898) φ Pegasi AR.		Dekl.		902) ω Piscium AR.		Dekl.		903) ε Tucanae AR.		Dekl.	
1940	$23^h 49^m$		$+18° 47'$		$23^h 56^m$		$+6° 31'$		$23^h 56^m$		$-65° 54'$	
	s		"		s		"		s		"	
Jan. 1	26.298	125	22.11	103	14.002	115	56.33	84	47.36	41	54.79	99
11	26.173	116	21.08	117	13.887	106	55.49	87	46.95	38	53.80	154
21	26.057	102	19.91	128	13.781	95	54.62	86	46.57	32	52.26	203
31	25.955	83	18.63	133	13.686	78	53.76	81	46.25	27	50.23	246
Febr. 10	25.872	59	17.30	132	13.608	56	52.95	72	45.98	21	47.77	283
20	25.813	29	15.98	126	13.552	30	52.23	58	45.77	14	44.94	313
März 1	25.784	5	14.72	112	13.522	2	51.65	41	45.63	6	41.81	336
11	25.789	42	13.60	92	13.524	36	51.24	19	45.57	2	38.45	350
21	25.831	84	12.68	67	13.560	75	51.05	6	45.59	10	34.95	357
31	25.915	126	12.01	38	13.635	114	51.11	32	45.69	18	31.38	356
Apr. 10	26.041	167	11.63	5	13.749	154	51.43	61	45.87	26	27.82	347
20	26.208	207	11.58	30	13.903	193	52.04	89	46.13	34	24.35	332
30	26.415	242	11.88	64	14.096	227	52.93	117	46.47	41	21.03	308
Mai 10	26.657	272	12.52	99	14.323	258	54.10	141	46.88	48	17.95	278
20	26.929	296	13.51	130	14.581	281	55.51	163	47.36	53	15.17	242
30	27.225	310	14.81	159	14.862	298	57.14	180	47.89	57	12.75	200
Juni 9	27.535	318	16.40	182	15.160	307	58.94	193	48.46	59	10.75	152
19	27.853	316	18.22	201	15.467	307	60.87	200	49.05	61	9.23	101
29	28.169	306	20.23	215	15.774	299	62.87	202	49.66	60	8.22	48
Juli 9	28.475	288	22.38	222	16.073	283	64.89	199	50.26	57	7.74	7
19	28.763	264	24.60	225	16.356	262	66.88	190	50.83	54	7.81	61
29	29.027	233	26.85	222	16.618	233	68.78	178	51.37	49	8.42	113
Aug. 8	29.260	197	29.07	214	16.851	199	70.56	161	51.86	42	9.55	162
18	29.457	159	31.21	201	17.050	163	72.17	141	52.28	33	11.17	205
28	29.616	119	33.22	186	17.213	125	73.58	120	52.61	24	13.22	242
Sept. 7	29.735	79	35.08	167	17.338	86	74.78	97	52.85	15	15.64	268
17	$_{18}$29.814	41	36.75	146	$_{20}$17.424	48	75.75	73	$_{20}$53.00	5	18.32	286
26	29.855	5	38.21	123	17.472	13	76.48	50	53.05	5	21.18	292
Okt. 6	29.860	27	39.44	99	17.485	18	76.98	28	53.00	14	24.10	287
16	29.833	55	40.43	74	17.467	45	77.26	8	52.86	22	26.97	271
26	29.778	79	41.17	49	17.422	69	77.34	11	52.64	30	29.68	243
Nov. 5	29.699	98	41.66	25	17.353	87	77.23	28	52.34	36	32.11	206
15	29.601	113	41.91	1	17.266	101	76.95	43	51.98	40	34.17	161
25	29.488	123	41.90	26	17.165	112	76.52	56	51.58	43	35.78	109
Dez. 5	29.365	129	41.64	50	17.053	117	75.96	67	51.15	44	36.87	53
15	29.236	131	41.14	71	16.936	120	75.29	76	50.71	45	37.40	5
25	29.105	129	40.43	92	16.816	118	74.53	83	50.26	42	37.35	63
35	28.976		39.51		16.698		73.70		49.84		36.72	
Mittl. Ort	25.905		13.42		13.686		52.12		48.77		39.19	
sec δ, tg δ	1.056		+0.340		1.007		+0.115		2.450		−2.237	
a, *a'*	+3.1		+20.0		+3.1		+20.0		+3.1		+20.0	
b, *b'*	+0.02		+ 0.05		+0.01		+ 0.02		−0.15		+ 0.01	

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m\!.52$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^h\ 0^m$	85° 56′	$0^s\!.01$	0″.01	$1^h\ 0^m$	85° 56′	$0^s\!.01$	0″.01	$1^h\ 0^m$	85° 56′	$0^s\!.01$	0″.01	$1^h\ 0^m$	85° 56′	$0^s\!.01$	0″.01
1	20.90	31.87	−7	+2	11.80	31.18	+1	−5	5.06	25.42	+6	−2	2.24	16.08	+6	+8
2	20.61	31.94	−6	−2	11.52	31.06	+5	−4	4.89	25.15	+8	+1	2.24	15.77	+3	+8
3	20.32	32.01	−4	−4	11.25	30.93	+7	−1	4.72	24.88	+8	+4	2.25	15.45	0	+8
4	20.02	32.07	−1	−6	10.98	30.79	+8	+2	4.56	24.61	+7	+6	2.26	15.13	−3	+6
5	19.72	32.13	+2	−5	10.71	30.65	+8	+4	4.40	24.33	+5	+8	2.28	14.82	−5	+4
6	19.42	32.18	+5	−3	10.44	30.50	+6	+6	4.25	24.05	+2	+8	*)2.31	14.50	−7	+1
7	19.13	32.22	+7	−1	10.18	30.34	+3	+7	4.11	23.77	−1	+7	2.34	14.18	−7	−2
8	18.83	32.25	+8	+2	9.92	30.18	+1	+7	3.97	23.49	−4	+5	2.37	13.87	−6	−5
9	18.53	32.28	+7	+5	9.66	30.02	−2	+6	3.83	23.20	−6	+2	2.41	13.56	−4	−7
10	18.23	32.30	+5	+6	9.40	29.85	−5	+4	3.70	22.91	−7	−1	2.46	13.25	−2	−8
11	17.94	32.32	+2	+7	9.15	29.67	−7	+1	3.58	22.62	−7	−4	2.51	12.94	+1	−8
12	17.64	32.33	−1	+7	8.90	29.49	−7	−2	3.46	22.32	−6	−7	2.57	12.63	+4	−7
13	17.35	32.33	−3	+5	8.65	29.31	−7	−5	3.34	22.02	−4	−9	2.64	12.32	+6	−4
14	17.05	32.33	−6	+3	8.40	29.12	−5	−8	3.23	21.72	−1	−9	2.71	12.01	+6	−1
15	16.75	32.32	−7	0	8.16	28.92	−3	−10	3.13	21.41	+2	−9	2.79	11.71	+5	+2
16	16.45	32.31	−8	−4	7.93	28.72	0	−10	3.03	21.11	+4	−6	2.87	11.41	+3	+5
17	16.15	32.29	−7	−7	7.70	28.51	+3	−8	2.94	20.80	+6	−3	2.96	11.11	−1	+6
18	15.85	32.26	−4	−9	7.47	28.30	+6	−5	2.85	20.49	+6	+1	3.05	10.82	−4	+5
19	15.56	32.22	−1	−10	7.24	28.08	+6	−1	2.77	20.18	+4	+4	3.15	10.52	−7	+2
20	15.26	32.18	+2	−9	7.02	27.86	+5	+3	2.69	19.87	+1	+6	3.25	10.23	−8	−1
21	14.97	32.13	+5	−6	6.81	27.64	+3	+6	2.62	19.56	−2	+6	3.36	9.94	−7	−4
22	14.67	32.08	+7	−3	6.60	27.41	0	+7	2.56	19.25	−6	+5	3.47	9.65	−4	−6
23	14.38	32.02	+7	+1	6.39	27.18	−3	+6	2.50	18.93	−7	+2	3.59	9.36	0	−6
24	14.09	31.95	+5	+5	6.19	26.94	−6	+4	2.45	18.62	−7	−1	3.72	9.07	+4	−5
25	13.80	31.87	+2	+7	5.99	26.70	−7	+1	2.40	18.30	−5	−4	3.85	8.79	+7	−2
26	13.51	31.79	−2	+7	5.80	26.45	−6	−2	2.36	17.98	−2	−5	3.98	8.51	+9	+1
27	13.22	31.70	−5	+6	5.61	26.20	−4	−4	2.33	17.67	+2	−5	4.12	8.24	+9	+5
28	12.93	31.61	−7	+3	5.42	25.94	0	−5	2.30	17.35	+5	−3	4.27	7.97	+7	+7
29	12.65	31.51	−7	0	5.24	25.68	+4	−4	2.28	17.03	+8	0	4.42	7.70	+4	+9
30	12.36	31.41	−5	−3	5.06	25.42	+6	−2	2.26	16.71	+9	+3	4.57	7.43	+1	+9
31	12.08	31.30	−2	−5					2.25	16.40	+8	+6	4.73	7.17	−2	+7
32	11.80	31.18	+1	−5					2.24	16.08	+6	+8				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 56′ 0″	14.101	+ 14.065	+85° 56′ 10″	14.111	+ 14.075	+85° 56′ 30″	14.130	+ 14.094
10	14.111	+ 14.075	20	14.120	+ 14.085	40	14.140	+ 14.104

$\alpha_{1940.0} = 1^h\ 0^m\ 9^s\!.64$ $\delta_{1940.0} = +85°\ 56'\ 10''\!.91$

*) Tag der doppelten unteren Kulmination: April 6.

Na) 43 Hev. Cephei $4^{m}.52$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$1^h\ 0^m$	$+85°\ 56'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 55'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 55'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 56'$	in $0^s.01$	in $0''.01$
1	4.73	7.17	−2	+7	11.75	61.11	−7	−3	20.82	59.95	−2	−9	30.23	3.85	+7	−2
2	4.90	6.91	−4	+5	12.03	60.99	−6	−6	21.14	59.99	+1	−8	30.51	4.06	+6	+1
3	5.07	6.66	−6	+2	12.31	60.88	−4	−7	21.45	60.04	+4	−7	30.79	4.27	+4	+4
4	5.24	6.41	−7	−1	12.60	60.77	−1	−8	21.77	60.10	+6	−4	31.06	4.49	+1	+6
5	5.42	6.16	−7	−4	12.88	60.67	+2	−7	22.08	60.17	+7	0	31.33	4.71	−2	+7
6	5.60	5.91	−5	−6	13.17	60.57	+5	−5	22.39	60.24	+6	+3	31.60	4.93	−5	+5
7	5.79	5.67	−3	−8	13.46	60.48	+6	−2	22.71	60.31	+3	+6	31.87	5.16	−7	+2
8	5.98	5.43	0	−8	13.75	60.39	+6	+1	23.02	60.39	0	+7	32.14	5.39	−6	−1
9	6.18	5.20	+3	−7	14.05	60.31	+5	+4	23.33	60.48	−3	+6	32.40	5.62	−5	−4
10	6.38	4.97	+5	−5	14.34	60.24	+2	+6	23.65	60.57	−6	+4	32.66	5.86	−2	−5
11	6.59	4.75	+6	−1	14.64	60.17	−1	+6	23.96	60.66	−7	+1	32.91	6.10	+1	−5
12	6.80	4.53	+6	+2	14.94	60.10	−4	+5	24.28	60.76	−7	−2	33.17	6.35	+5	−4
13	7.01	4.32	+4	+4	15.24	60.04	−7	+2	24.59	60.87	−4	−5	33.42	6.60	+7	−1
14	7.23	4.11	+1	+6	15.54	59.99	−7	−1	24.90	60.98	−1	−6	33.67	6.86	+8	+2
15	7.45	3.90	−3	+5	15.85	59.94	−6	−4	25.21	61.10	+2	−5	33.91	7.12	+8	+5
16	7.68	3.70	−6	+4	16.15	59.90	−3	−6	25.51	61.22	+5	−3	34.15	7.39	+6	+7
17	7.91	3.50	−7	0	16.46	59.86	0	−6	25.82	61.35	+7	0	34.39	7.66	+3	+8
18	8.14	3.31	−7	−3	16.76	59.83	+3	−5	26.12	61.48	+8	+3	34.63	7.93	0	+8
19	8.38	3.12	−5	−5	17.07	59.81	+6	−2	26.43	61.62	+7	+5	34.87	8.20	−3	+6
20	8.62	2.94	−2	−6	17.38	59.79	+8	+1	26.73	61.76	+5	+7	35.10	8.48	−5	+4
21	8.86	2.76	+2	−6	17.69	59.78	+8	+4	27.03	61.91	+2	+8	35.33	8.76	−7	+1
22	9.11	2.58	+5	−4	18.00	59.77	+6	+7	27.33	62.06	−1	+7	35.56	9.04	−7	−2
23	9.36	2.41	+8	−1	18.31	59.77	+4	+8	27.63	62.22	−4	+5	35.78	9.33	−6	−5
24	9.61	2.25	+8	+3	18.63	59.77	+1	+8	27.93	62.38	−6	+3	36.00	9.62	−5	−8
25	9.87	2.09	+8	+6	18.94	59.78	−2	+7	28.22	62.54	−7	0	36.21	9.92	−2	−9
26	10.13	1.93	+6	+8	19.25	59.80	−5	+4	28.51	62.71	−7	−4	36.42	10.22	+1	−9
27	10.39	1.78	+3	+9	19.57	59.82	−7	+1	28.80	62.89	−6	−7	36.63	10.52	+4	−7
28	10.66	1.64	−1	+8	19.88	59.84	−7	−2	29.09	63.07	−4	−8	36.84	10.83	+6	−4
29	10.93	1.50	−4	+6	20.19	59.87	−7	−5	29.38	63.26	−1	−9	37.04	11.14	+6	−1
30	11.20	1.36	−6	+3	20.51	59.91	−5	−7	29.67	63.45	+2	−8	37.24	11.45	+5	+2
31	11.47	1.23	−7	0	20.82	59.95	−2	−9	29.95	63.65	+5	−6	37.43	11.77	+3	+5
32	11.75	1.11	−7	−3					30.23	63.85	+7	−2	37.62	12.09	0	+6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 55′ 50″	14.091	+ 14.056	+85° 56′ 0″	14.101	+ 14.065	+85° 56′ 10″	14.111	+ 14.075
60	14.101	+ 14.065	10	14.111	+ 14.075	20	14.120	+ 14.085

$\alpha_{1940.0} = 1^h\ 0^m\ 9^s.64$ $\delta_{1940.0} = +85°\ 56'\ 10''.91$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m.52$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^h\ 0^m$	+85° 56′	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	+85° 56′	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	+85° 56′	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	+85° 56′	in $0^s.01$	in $0''.01$
1	$37^s.62$	$12''.09$	0	+6	$41^s.50$	$22''.63$	−8	+1	$41^s.21$	$34''.46$	+4	−5	$36^s.69$	$43''.68$	+8	+3
2	37.80	12.41	−4	+5	41.56	23.01	−7	−2	41.12	34.81	+7	−2	36.47	43.93	+7	+6
3	37.98	12.73	−6	+3	41.62	23.38	−6	−5	41.03	35.16	+9	+2	36.25	44.17	+5	+9
4	38.16	13.06	−7	0	41.67	23.76	−2	−6	40.93	35.51	+8	+5	36.03	44.41	+2	+9
5	38.34	13.39	−6	−3	41.72	24.13	+2	−5	40.83	35.85	+7	+8	35.81	44.64	−1	+8
6	38.51	13.72	−4	−5	41.76 41.80	24.51 24.88	+6 +8	−3 0	40.73	36.19	+4	+9	35.58	44.87	−4	+6
7	38.68	14.05	0	−5	41.84	25.26	+9	+3	40.62	36.53	+1	+9	35.35	45.09	−6	+3
8	38.84	14.39	+3	−4	41.87	25.63	+8	+7	40.51	36.87	−2	+7	35.11	45.31	−7	0
9	39.00	14.73	+7	−2	41.90	26.01	+5	+8	40.39	37.21	−5	+5	34.87	45.53	−6	−3
10	39.16	15.07	+8	+1	41.92	26.39	+2	+9	40.27	37.54	−6	+2	34.63	45.74	−4	−5
11	39.31	15.41	+8	+4	41.94	26.76	−1	+8	40.14	37.87	−6	−1	34.38	45.94	−2	−7
12	39.46	15.76	+7	+7	41.96	27.14	−3	+6	40.01	38.19	−6	−4	34.13	46.14	0	−7
13	39.60	16.11	+4	+8	41.97	27.51	−5	+3	39.87	38.51	−4	−6	33.88	46.33	+3	−7
14	39.74	16.46	+1	+8	41.97	27.88	−6	0	39.73	38.83	−2	−7	33.62	46.51	+5	−5
15	39.88	16.81	−2	+7	41.97	28.26	−6	−2	39.59	39.15	+1	−7	33.36	46.69	+6	−2
16	40.01	17.16	−4	+5	41.96	28.63	−5	−5	39.44	39.46	+3	−6	33.10	46.87	+6	+1
17	40.14	17.51	−6	+2	41.95	29.00	−4	−7	39.29	39.77	+5	−4	32.84	47.04	+4	+4
18	40.27	17.87	−6	−1	41.93	29.38	−1	−8	39.13	40.07	+6	−1	32.58	47.20	+2	+5
19	40.39	18.23	−6	−4	41.91	29.75	+2	−8	38.97	40.37	+5	+2	32.31	47.36	−1	+5
20	40.51	18.59	−5	−7	41.89	30.12	+4	−6	38.80	40.67	+3	+4	32.04	47.51	−5	+4
21	40.62	18.95	−3	−8	41.86	30.49	+6	−4	38.63	40.97	0	+5	31.76	47.65	−7	+1
22	40.73	19.32	0	−9	41.82	30.86	+6	−1	38.45	41.26	−3	+5	31.49	47.79	−7	−2
23	40.83	19.68	+2	−8	41.78	31.22	+5	+2	38.27	41.55	−6	+3	31.21	47.92	−7	−5
24	40.93	20.04	+5	−6	41.74	31.59	+2	+4	38.09	41.83	−8	0	30.93	48.05	−4	−7
25	41.02	20.41	+6	−3	41.69	31.95	−1	+5	37.90	42.11	−8	−3	30.65	48.17	0	−7
26	41.11	20.78	+6	0	41.63	32.32	−5	+4	37.71	42.38	−6	−6	30.37	48.29	+3	−5
27	41.20	21.15	+4	+3	41.57	32.68	−7	+2	37.51	42.65	−2	−7	30.08	48.40	+6	−3
28	41.28	21.52	+1	+5	41.51	33.04	−8	−1	37.31	42.91	+1	−6	29.79	48.50	+8	+1
29	41.36	21.89	−3	+5	41.44	33.40	−7	−4	37.11	43.17	+5	−4	29.50	48.60	+8	+4
30	41.43	22.26	−6	+4	41.37	33.76	−4	−6	36.90	43.43	+7	−1	29.21	48.69	+6	+7
31	41.50	22.63	−8	+1	41.29	34.11	0	−6	36.69	43.68	+8	+3	28.92	48.77	+3	+9
32					41.21	34.46	+4	−5					28.62	48.85	0	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 56′ 10″	14.111	+ 14.075	+85° 56′ 30″	14.130	+ 14.094	+85° 56′ 40″	14.140	+ 14.104
20	14.120	+ 14.085	40	14.140	+ 14.104	50	14.149	+ 14.114

$\alpha_{1940.0} = 1^h\ 0^m\ 9^s.64$ $\delta_{1940.0} = +85°\ 56'\ 10''.91$

Nb) α Ursae minoris $2^m_.12$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^h 42^m$	88° 59′	$0^s.01$	0″.01	$1^h 42^m$	88° 59′	$0^s.01$	0″.01	$1^h 42^m$	88° 58′	$0^s.01$	0″.01	$1^h 42^m$	88° 58′	$0^s.01$	0″.01
1	91.52	2.85	−26	+3	54.75	4.23	+4	−5	23.82	60.02	+24	−3	5.95	51.41	+24	+7
2	90.41	2.99	−25	−1	53.56	4.17	+17	−5	22.95	59.79	+31	0	5.72	51.10	+13	+8
3	89.30	3.12	−17	−4	52.37	4.10	+27	−2	22.10	59.56	+32	+2	5.51	50.78	+2	+8
4	88.17	3.25	−5	−5	51.19	4.03	+31	0	21.26	59.33	+28	+5	5.33	50.46	−10	+7
5	87.03	3.37	+9	−6	50.02	3.95	+30	+3	20.44	59.09	+19	+7	5.17	50.15	−19	+5
6	85.88	3.49	+20	−5	48.85	3.86	+24	+5	19.64	58.85	+8	+7	5.03	49.83	−25	+2
7	84.73	3.60	+28	−2	47.69	3.77	+15	+7	18.86	58.60	−3	+7	4.91	49.52	−27	−1
8	83.57	3.70	+30	+1	46.53	3.67	+4	+7	18.10	58.35	−13	+6	4.82	49.20	−24	−4
9	82.41	3.80	+28	+4	45.38	3.56	−8	+6	17.35	58.09	−21	+3	4.75	48.88	−18	−7
10	81.23	3.89	+21	+6	44.24	3.45	−18	+5	16.62	57.83	−27	0	4.70	48.56	−10	−8
11	80.05	3.97	+10	+7	43.11	3.33	−25	+2	15.91	57.57	−28	−3	4.68	48.25	+1	−9
12	78.87	4.05	−1	+7	41.99	3.21	−29	−1	15.23	57.30	−24	−6	4.68	47.93	+13	−8
13	77.68	4.12	−12	+6	40.87	3.08	−28	−4	14.56	57.03	−17	−8	4.70	47.61	+20	−5
14	76.49	4.19	−22	+4	39.77	2.94	−23	−7	13.91	56.76	−7	−9	4.75	47.30	+23	−2
15	75.29	4.25	−28	+1	38.68	2.80	−13	−9	13.28	56.49	+5	−9	4.82	46.98	+20	+2
16	74.09	4.30	−30	−2	37.59	2.65	−2	−10	12.68	56.21	+16	−7	4.91	46.67	+11	+4
17	72.88	4.34	−27	−6	36.52	2.50	+10	−9	12.09	55.93	+22	−4	*)5.03	46.35	−3	+6
18	71.68	4.38	−19	−8	35.46	2.34	+20	−6	11.53	55.64	+22	0	5.17	46.04	−16	+6
19	70.47	4.41	−8	−9	34.42	2.18	+25	−2	10.99	55.35	+16	+3	5.33	45.72	−25	+4
20	69.26	4.43	+6	−9	33.38	2.01	+22	+2	10.47	55.06	+6	+6	5.52	45.41	−30	+1
21	68.04	4.45	+17	−7	32.36	1.84	+13	+5	9.97	54.76	−8	+7	5.72	45.10	−26	−2
22	66.83	4.46	+24	−4	31.36	1.66	+1	+7	9.49	54.47	−20	+6	5.95	44.79	−16	−5
23	65.61	4.47	+25	0	30.36	1.47	−12	+7	8.03	54.17	−27	+3	6.20	44.48	−3	−6
24	64.40	4.47	+19	+4	29.38	1.28	−23	+5	8.60	53.87	−28	0	6.47	44.17	+12	−5
25	63.19	4.46	+9	+7	28.42	1.08	−27	+2	8.19	53.57	−21	−3	6.77	43.87	+25	−3
26	61.97	4.45	−5	+8	27.47	0.88	−24	−1	7.80	53.27	−8	−5	7.08	43.57	+33	0
27	60.76	4.43	−17	+7	26.53	0.67	−14	−4	7.44	52.96	+6	−5	7.42	43.27	+33	+3
28	59.56	4.40	−25	+4	25.61	0.46	−1	−5	7.09	52.66	+20	−4	7.78	42.97	+28	+6
29	58.35	4.37	−26	+1	24.71	0.24	+13	−5	6.77	52.35	+30	−2	8.16	42.67	+19	+8
30	57.15	4.33	−20	−2	23.82	0.02	+24	−3	6.47	52.04	+34	+1	8.56	42.38	+7	+8
31	55.95	4.28	−9	−4					6.20	51.73	+32	+4	8.99	42.09	−5	+7
32	54.75	4.23	+4	−5					5.95	51.41	+24	+7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 58′ 40″	56.053	+56.044	+88° 58′ 50″	56.206	+56.197	+88° 59′ 0″	56.359	+56.351
50	56.206	+56.197	60	56.359	+56.351	10	56.514	+56.505

$\alpha_{1940.0} = 1^h\ 42^m\ 34^s.16$ $\delta_{1940.0} = +88°\ 58'\ 44''.26$

*) Tag der doppelten unteren Kulmination: April 17.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
	$1^h 42^m$	$+88° 58'$	in 0.01 s	in 0.01 "	$1^h 42^m$	$+88° 58'$	in 0.01 s	in 0.01 "
1	8.99	42.09	−5	+7	31.33	34.62	−27	−2
2	9.43	41.80	−16	+6	32.30	34.44	−23	−5
3	9.89	41.51	−23	+3	33.29	34.27	−16	−7
4	10.37	41.23	−26	0	34.28	34.10	−6	−8
5	10.88	40.94	−26	−3	35.29	33.94	+6	−8
6	11.40	40.66	−20	−6	36.32	33.78	+17	−6
7	11.95	40.39	−12	−7	37.35	33.63	+23	−3
8	12.51	40.11	−1	−8	38.40	33.48	+24	0
9	13.09	39.84	+9	−7	39.46	33.34	+19	+3
10	13.69	39.57	+18	−6	40.52	33.20	+9	+6
11	14.32	39.30	+23	−3	41.60	33.07	−4	+7
12	14.96	39.04	+22	+1	42.69	32.94	−16	+6
13	15.62	38.78	+15	+4	43.79	32.82	−25	+3
14	16.30	38.52	+4	+6	44.90	32.70	−28	0
15	16.99	38.27	−9	+6	46.02	32.59	−24	−3
16	17.71	38.02	−21	+4	47.15	32.49	−15	−5
17	18.44	37.78	−28	+2	48.28	32.39	−1	−6
18	19.19	37.54	−28	−1	49.42	32.29	+12	−6
19	19.96	37.30	−22	−4	50.57	32.20	+23	−4
20	20.74	37.07	−9	−6	51.73	32.11	+31	−1
21	21.54	36.84	+6	−6	52.90	32.03	+31	+3
22	22.35	36.62	+19	−5	54.07	31.96	+25	+5
23	23.18	36.40	+29	−2	55.25	31.89	+17	+7
24	24.03	36.19	+32	+1	56.43	31.83	+5	+8
25	24.89	35.98	+31	+4	57.62	31.77	−7	+7
26	25.77	35.77	+23	+7	58.82	31.72	−17	+5
27	26.66	35.57	+12	+8	60.02	31.67	−25	+2
28	27.57	35.37	0	+8	61.23	31.63	−27	−1
29	28.49	35.18	−12	+7	62.44	31.59	−26	−4
30	29.42	34.99	−21	+4	63.66	31.56	−20	−6
31	30.37	34.80	−26	+1	64.88	31.53	−10	−8
32	31.33	34.62	−27	−2				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$1^h 43^m$	$+88° 58'$	in 0.01 s	in 0.01 "	$1^h 43^m$	$+88° 58'$	in 0.01 s	in 0.01 "
1	4.88	31.53	−10	−8	43.23	33.38	+24	−4
2	6.10	31.51	+1	−8	44.43	33.52	+24	0
3	7.33	31.49	+13	−7	45.63	33.67	+17	+4
4	8.57	31.48	+21	−5	46.82	33.82	+7	+6
5	9.80	31.48	+25	−1	48.01	33.98	−6	+7
6	11.04	31.48	+23	+2	49.19	34.14	−18	+6
7	12.28	31.49	+14	+5	50.36	34.31	−26	+4
8	13.52	31.50	+2	+7	51.53	34.48	−26	0
9	14.76	31.52	−11	+7	52.69	34.66	−21	−3
10	16.01	31.54	−21	+5	53.85	34.84	−10	−5
11	17.25	31.57	−28	+2	55.00	35.02	+4	−6
12	18.50	31.60	−26	−1	56.14	35.21	+17	−5
13	19.75	31.64	−18	−4	57.28	35.41	+27	−2
14	21.00	31.68	−5	−6	58.40	35.61	+32	0
15	22.24	31.73	+8	−6	59.52	35.81	+30	+4
16	23.49	31.79	+20	−4	60.62	36.02	+23	+6
17	24.74	31.85	+28	−2	61.73	36.23	+13	+7
18	25.99	31.91	+31	+1	62.83	36.45	+2	+8
19	27.24	31.98	+28	+4	63.91	36.67	−9	+7
20	28.48	32.06	+20	+7	64.99	36.90	−19	+5
21	29.73	32.14	+9	+8	66.06	37.13	−25	+2
22	30.97	32.23	−3	+7	67.12	37.36	−26	−1
23	32.21	32.32	−14	+6	68.16	37.60	−24	−4
24	33.45	32.42	−22	+4	69.20	37.84	−19	−7
25	34.68	32.52	−27	+1	70.22	38.09	−10	−9
26	35.92	32.63	−27	−2	71.24	38.34	+1	−9
27	37.15	32.74	−23	−6	72.24	38.59	+13	−8
28	38.37	32.86	−15	−8	73.24	38.85	+22	−5
29	39.59	32.98	−4	−9	74.22	39.11	+24	−2
30	40.81	33.11	+8	−9	75.20	39.38	+21	+2
31	42.02	33.24	+18	−7	76.16	39.65	+12	+5
32	43.23	33.38	+24	−4	77.11	39.92	−1	+6

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 58′ 30″	55.901	+55.892	+88° 58′ 40″	56.053	+56.044
40	56.053	+56.044	50	56.206	+56.197

$\alpha_{1940.0} = 1^h\ 42^m\ 34^s.16$ $\delta_{1940.0} = +88°\ 58'\ 44''.26$

Nb) α Ursae minoris $2^{m}.12$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	
	$1^h\,44^m$	+ 88° 58′	in 0.01 s	in 0.01 ″	$1^h\,44^m$	+ 88° 58′	in 0.01 s	in 0.01 ″
	s	″			s	″		
1	17.11	39.92	− 1	+6	39.28	49.52	−29	+2
2	18.05	40.20	−14	+6	39.78	49.88	−28	−1
3	18.97	40.48	−24	+4	40.26	50.24	−22	−4
4	19.89	40.76	−29	+2	40.72	50.60	−10	−6
5	20.79	41.05	−25	−2	41.17	50.96	+ 5	−6
6	21.68	41.34	−16	−4	41.60	51.32	+20	−4
7	22.56	41.63	− 2	−5	42.02	51.69	+30	−1
8	23.42	41.93	+12	−5	42.41	52.05	+33	+2
9	24.27	42.23	+25	−3	42.79	52.42	+31	+6
10	25.10	42.54	+31	0	43.15	52.79	+23	+8
11	25.92	42.84	+32	+3	43.49	53.16	+12	+8
12	26.73	43.15	+28	+6	43.82	53.53	0	+8
13	27.52	43.46	+18	+8	44.12	53.90	−11	+7
14	28.30	43.78	+ 6	+8	44.41	54.27	−19	+4
15	29.07	44.10	− 5	+7	44.68	54.64	−24	+1
16	29.83	44.42	−15	+6	44.93	55.01	−24	−1
17	30.57	44.75	−22	+3	{45.16 45.38	55.38 55.76	−20 −15	−4} −7}
18	31.29	45.07	−25	0	45.57	56.13	− 5	−8
19	32.00	45.40	−25	−3	45.74	56.50	+ 5	−8
20	32.69	45.73	−20	−6	45.89	56.87	+15	−7
21	33.37	46.06	−13	−8	46.03	57.25	+21	−5
22	34.03	46.40	− 3	−9	46.14	57.62	+22	−2
23	34.68	46.74	+ 7	−8	46.24	58.00	+18	+1
24	35.31	47.08	+17	−7	46.31	58.37	+10	+4
25	35.93	47.42	+23	−4	46.37	58.74	− 3	+5
26	36.53	47.77	+22	0	46.41	59.11	−17	+5
27	37.11	48.11	+15	+3	46.42	59.49	−27	+3
28	37.68	48.46	+ 4	+5	46.42	59.86	−31	0
29	38.23	48.82	− 9	+6	46.40	60.23	−27	−3
30	38.76	49.17	−21	+5	46.36	60.60	−17	−6
31	39.28	49.52	−29	+2	46.30	60.97	− 2	−6
32					46.22	61.34	+12	−6

Tag	November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$1^h\,44^m$	+ 88° 59′	in 0.01 s	in 0.01 ″	$1^h\,44^m$	+ 88° 59′	in 0.01 s	in 0.01 ″
	s	″			s	″		
1	46.22	1.34	+12	−6	34.55	11.56	+33	+2
2	46.12	1.71	+25	−3	33.87	11.86	+30	+5
3	46.00	2.08	+33	0	33.16	12.15	+21	+8
4	45.86	2.45	+33	+4	32.43	12.44	+10	+9
5	45.70	2.81	+27	+7	31.69	12.72	− 3	+9
6	45.52	3.18	+17	+9	30.93	13.00	−14	+7
7	45.32	3.54	+ 4	+9	30.15	13.28	−21	+4
8	45.10	3.90	− 7	+8	29.36	13.55	−24	+1
9	44.86	4.26	−16	+6	28.55	13.81	−24	−2
10	44.60	4.62	−23	+3	27.72	14.07	−18	−5
11	44.32	4.97	−25	0	26.88	14.33	−11	−7
12	44.02	5.33	−22	−3	26.02	14.58	− 1	−7
13	43.70	5.68	−17	−5	25.15	14.83	+ 9	−7
14	43.36	6.03	− 8	−7	24.26	15.07	+18	−6
15	43.00	6.37	+ 2	−8	23.36	15.31	+23	−3
16	42.61	6.72	+11	−7	22.44	15.54	+23	0
17	42.21	7.06	+19	−5	21.50	15.77	+17	+3
18	41.79	7.40	+23	−2	20.55	16.00	+ 8	+5
19	41.35	7.74	+21	+1	19.58	16.22	− 4	+6
20	40.89	8.07	+14	+3	18.60	16.43	−17	+5
21	40.41	8.40	+ 3	+5	17.61	16.64	−26	+3
22	39.91	8.73	−11	+5	16.60	16.84	−29	0
23	39.39	9.06	−22	+4	15.58	17.04	−26	−4
24	38.85	9.39	−29	+1	14.55	17.23	−17	−6
25	38.29	9.71	−30	−2	13.50	17.42	− 3	−7
26	37.72	10.03	−23	−5	12.45	17.60	+12	−6
27	37.12	10.34	−11	−7	11.38	17.77	+24	−4
28	36.51	10.65	+ 4	−7	10.30	17.94	+31	0
29	35.88	10.96	+20	−5	9.21	18.10	+31	+3
30	35.22	11.26	+29	−2	8.11	18.26	+25	+6
31	34.55	11.56	+33	+2	6.99	18.41	+15	+8
32					5.87	18.55	+ 2	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 58′ 30″	55.901	+ 55.892	+88° 58′ 50″	56.206	+ 56.197	+88° 59′ 10″	56.514	+ 56.505
40	56.053	+ 56.044	60	56.359	+ 56.351	20	56.669	+ 56.660

$\alpha_{1940.0} = 1^h\ 42^m\ 34.16$ $\delta_{1940.0} = +88°\ 58'\ 44''.26$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nc) Grb 750 Cepheus $6^m.70$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$4^h\,17^m$	$+85°\,23'$	in $0^s.01$	in $0''.01$	$4^h\,16^m$	$+85°\,23'$	in $0^s.01$	in $0''.01$	$4^h\,16^m$	$+85°\,23'$	in $0^s.01$	in $0''.01$	$4^h\,16^m$	$+85°\,23'$	in $0^s.01$	in $0''.01$
1	$12^s.55$	$42''.04$	−3	+6	$67^s.15$	$48''.95$	−2	−5	$59^s.80$	$50''.67$	+3	−6	$52^s.37$	$46''.93$	+9	+2
2	12.44	42.33	−5	+3	66.92	49.10	+1	−6	59.54	50.64	+6	−5	52.17	46.73	+7	+4
3	12.32	42.61	−5	0	66.69	49.24	+4	−6	59.27	50.60	+8	−3	51.98	46.52	+5	+6
4	12.20	42.89	−4	−4	66.46	49.37	+6	−5	59.01	50.55	+8	0	51.79	46.31	+2	+7
5	12.07	43.17	−2	−6	66.22	49.50	+7	−2	58.75	50.50	+8	+3	51.60	46.09	−1	+7
6	11.94	43.44	+1	−7	65.97	49.62	+8	+1	58.49	50.44	+6	+5	51.41	45.87	−4	+5
7	11.80	43.71	+4	−6	65.73	49.73	+7	+3	58.23	50.37	+4	+6	51.23	45.64	−6	+3
8	11.66	43.97	+6	−4	65.49	49.84	+5	+5	57.98	50.30	+1	+7	51.05	45.41	−7	0
9	11.52	44.23	+7	−1	65.24	49.95	+2	+6	57.72	50.22	−2	+6	50.88	45.18	−7	−3
10	11.37	44.49	+7	+1	64.99	50.05	−1	+7	57.47	50.14	−5	+5	50.71	44.95	−7	−5
11	11.22	44.74	+6	+4	64.75	50.14	−4	+6	57.21	50.05	−7	+2	50.55	44.71	−5	−7
12	11.07	44.99	+4	+6	64.50	50.22	−6	+4	56.96	49.96	−8	−1	50.39	44.47	−2	−8
13	10.91	45.23	+1	+7	64.24	50.30	−8	+1	56.71	49.86	−8	−4	50.24	44.22	+1	−7
14	10.75	45.47	−2	+7	63.99	50.37	−9	−2	56.46	49.75	−7	−6	50.09	43.97	+3	−5
15	10.58	45.71	−5	+5	63.73	50.43	−8	−5	56.21	49.64	−4	−8	49.94	43.72	+5	−2
16	10.41	45.94	−7	+3	63.47	50.49	−6	−7	55.97	49.52	−1	−8	49.80	43.46	+5	+2
17	10.23	46.17	−9	0	63.22	50.54	−3	−8	55.73	49.40	+2	−7	49.66	43.20	+3	+5
18	10.05	46.39	−9	−4	62.96	50.59	0	−8	55.49	49.27	+4	−4	49.53	42.94	0	+7
19	9.86	46.61	−7	−6	62.70	50.63	+3	−6	55.25	49.13	+5	0	49.40	42.67	−3	+7
20	9.67	46.82	−4	−8	62.44	50.67	+5	−2	55.01	48.99	+4	+4	49.27	42.40	−5	+5
21	9.48	47.03	−1	−9	62.18	50.70	+6	+2	54.77	48.85	+2	+7	49.15	42.13	−6	+2
22	9.29	47.23	+2	−7	61.92	50.72	+4	+6	54.54	48.70	−1	+8	49.03	41.86	−6	−2
23	9.09	47.42	+5	−4	61.65	50.74	+2	+8	54.31	48.55	−3	+7	48.92	41.59	−4	−5
24	8.89	47.61	+6	0	61.38	50.75	−1	+8	54.08	48.39	−5	+4	48.81	41.31	−1	−6
25	8.68	47.80	+6	+4	61.12	50.75	−4	+6	53.85	48.23	−6	0	48.71	41.03	+3	−7
26	8.47	47.98	+4	+7	60.85	50.74	−5	+3	53.63	48.06	−5	−3	48.61	40.75	+6	−5
27	8.26	48.15	+1	+8	60.59	50.73	−5	−1	53.41	47.88	−2	−6	48.52	40.47	+8	−3
28	8.04	48.32	−2	+7	60.33	50.72	−3	−4	53.20	47.70	+1	−7	48.43	40.18	+9	0
29	7.82	48.49	−4	+5	60.06	50.70	0	−6	52.99	47.52	+5	−6	48.35	39.90	+8	+3
30	7.60	48.65	−5	+1	59.80	50.67	+3	−6	52.78	47.33	+7	−4	48.27	39.61	+6	+6
31	7.38	48.80	−4	−2					52.57	47.13	+9	−1	48.20	39.32	+4	+7
32	7.15	48.95	−2	−5					52.37	46.93	+9	+2				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 23′ 30″	12.446	+ 12.406	+85° 23′ 40″	12.454	+ 12.414	+85° 23′ 50″	12.461	+ 12.421
40	12.454	+ 12.414	50	12.461	+ 12.421	60	12.469	+ 12.429

$\alpha_{1940.0} = 4^h\ 16^m\ 52^s.60$ $\delta_{1940.0} = +85°\ 23'\ 37''.04$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nc) Grb 750 Cepheus $6^{m}.70$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$	$4^h 17^m$	$85° 23'$	$0^s.01$	$0''.01$
1	48.20	39.32	+4	+7	48.40	30.06	−6	+3	52.86	22.40	−7	−5	0.70	17.80	+2	−6
2	48.13	39.03	0	+7	48.49	29.77	−7	0	53.07	22.19	−5	−7	0.99	17.72	+5	−3
3	48.07	38.73	−3	+6	48.58	29.48	−7	−3	53.28	21.99	−2	−8	1.28	17.65	+6	+1
4	48.01	38.43	−5	+4	48.67	29.19	−6	−6	53.50	21.79	+1	−7	1.57	17.58	+5	+4
5	47.96	38.14	−7	+1	48.77	28.91	−3	−7	53.72	21.59	+4	−5	1.87	17.52	+3	+7
6	47.91	37.84	−7	−1	48.88	28.63	0	−8	53.95	21.40	+6	−2	2.16	17.46	0	+8
7	47.87	37.54	−7	−4	48.99	28.35	+2	−6	54.18	21.21	+6	+2	2.46	17.40	−3	+7
8	47.83	37.24	−5	−6	49.10	28.07	+5	−3	54.41	21.02	+4	+5	2.75	17.35	−5	+4
9	47.79	36.94	−3	−8	49.21	27.80	+6	0	54.64	20.84	+2	+7	3.05	17.30	−6	+1
10	47.76	36.64	0	−7	49.33	27.52	+5	+3	54.87	20.66	−1	+7	3.35	17.26	−5	−2
11	47.74	36.34	+3	−6	49.46	27.25	+3	+6	55.11	20.48	−4	+6	3.65	17.22	−2	−5
12	47.72	36.03	+5	−3	49.59	26.98	0	+7	55.35	20.31	−6	+3	3.95	17.19	+1	−6
13	47.71	35.73	+5	+1	49.72	26.71	−3	+7	55.59	20.14	−6	−1	4.26	17.16	+4	−6
14	47.70	35.43	+4	+4	49.86	26.45	−5	+4	55.84	19.98	−4	−4	4.56	17.13	+6	−4
15	47.69	35.13	+2	+6	50.00	26.19	−6	+1	56.09	19.82	−2	−6	4.87	17.11	+8	−2
16	47.69	34.82	−1	+7	50.15	25.93	−6	−2	56.34	19.67	+1	−7	5.17	17.10	+8	+1
17	47.70	34.52	−4	+6	50.30	25.67	−4	−5	56.60	19.52	+4	−6	5.48	17.09	+7	+4
18	47.71	34.22	−6	+3	50.46	25.42	−1	−7	56.85	19.38	+7	−4	5.78	17.09	+5	+6
19	47.73	33.91	−7	0	50.62	25.17	+3	−7	57.11	19.24	+8	−1	6.09	17.09	+2	+7
20	47.75	33.61	−5	−4	50.79	24.92	+6	−5	57.37	19.10	+8	+2	6.39	17.10	−1	+7
21	47.78	33.31	−3	−6	50.96	24.67	+8	−3	57.64	18.97	+6	+5	6.70	17.11	−4	+5
22	47.81	33.01	+1	−7	51.13	24.43	+8	0	57.91	18.84	+4	+6	7.01	17.13	−6	+3
23	47.85	32.71	+4	−6	51.31	24.19	+7	+3	58.18	18.72	+1	+7	7.32	17.15	−7	0
24	47.89	32.41	+7	−4	51.49	23.95	+5	+6	58.45	18.60	−2	+6	7.63	17.17	−8	−3
25	47.93	32.11	+9	−1	51.67	23.72	+3	+7	58.73	18.48	−5	+5	7.94	17.20	−7	−6
26	*)47.98	31.81	+9	+2	51.86	23.49	0	+7	59.00	18.37	−7	+2	8.25	17.24	−5	−8
27	48.04	31.52	+7	+5	52.05	23.26	−3	+6	59.28	18.26	−8	−1	8.56	17.28	−2	−9
28	48.10	31.23	+5	+7	52.25	23.04	−6	+4	59.56	18.16	−8	−4	8.87	17.32	+1	−8
29	48.17	30.93	+2	+7	52.45	22.82	−7	+1	59.84	18.06	−6	−7	9.18	17.36	+3	−5
30	48.24	30.64	−1	+7	52.65	22.61	−8	−2	60.12	17.97	−4	−8	9.49	17.41	+5	−2
31	48.32	30.35	−4	+5	52.86	22.40	−7	−5	60.41	17.88	0	−8	9.80	17.47	+5	+2
32	48.40	30.06	−6	+3					60.70	17.80	+2	−6	10.11	17.53	+3	+5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 23′ 10″	12.432	+ 12.391	+85° 23′ 20″	12.439	+ 12.399	+85° 23′ 30″	12.446	+ 12.406
20	12.439	+ 12.399	30	12.446	+ 12.406	40	12.454	+ 12.414

$\alpha_{1940.0} = 4^h\ 16^m\ 52^s.60$ $\delta_{1940.0} = +85°\ 23'\ 37''.04$

*) Tag der doppelten unteren Kulmination: Mai 26.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nc) Grb 750 Cepheus $6^{m}.70$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$4^h 17^m$	+ $85° 23'$	in 0.01^s	$0.01''$	$4^h 17^m$	+ $85° 23'$	in 0.01^s	$0.01''$	$4^h 17^m$	+ $85° 23'$	in 0.01^s	$0.01''$	$4^h 17^m$	+ $85° 23'$	in 0.01^s	$0.01''$
1	10.11	17.53	+3	+5	19.01	21.48	−4	+6	26.24	29.24	−4	−5	29.87	39.27	+7	−4
2	10.42	17.60	+1	+7	19.28	21.68	−6	+4	26.42	29.54	−1	−7	29.91	39.61	+9	0
3	10.72	17.67	−2	+7	19.55	21.88	−6	0	26.60	29.84	+3	−7	29.95	39.94	+9	+3
4	11.03	17.75	−4	+6	19.82	22.09	−5	−3	26.77	30.15	+7	−5	29.98	40.28	+7	+6
5	11.34	17.83	−6	+3	20.09	22.30	−2	−6	26.94	30.45	+9	−2	30.01	40.62	+5	+7
6	11.65	17.92	−5	−1	20.35	22.51	+2	−6	27.11	30.76	+9	+1	30.03	40.95	+2	+8
7	11.95	18.01	−3	−4	20.61	22.73	+5	−6	27.27	31.07	+8	+4	30.04	41.29	−1	+7
8	12.26	18.10	0	−6	20.87	22.95	+8	−4	27.43	31.38	+6	+6	30.05	41.62	−4	+5
9	12.56	18.20	+3	−6	21.13	23.17	+9	−1	27.58	31.69	+3	+8	30.06	41.96	−6	+2
10	12.87	18.30	+6	−5	21.38	23.40	+9	+3	27.73	32.01	0	+7	30.06	42.29	−6	−1
11	13.17	18.41	+8	−3	21.63	23.63	+7	+5	27.87	32.33	−3	+6	30.05	42.62	−6	−4
12	13.48	18.52	+9	0	21.88	23.86	+5	+7	28.01	32.65	−5	+4	30.04	42.95	−5	−6
13	13.78	18.64	+8	+3	22.13	24.10	+2	+7	28.15	32.97	−6	+1	30.03	43.28	−2	−7
14	14.08	18.76	+6	+6	22.37	24.34	−1	+7	28.28	33.29	−6	−2	30.01	43.61	0	−7
15	14.38	18.89	+3	+7	22.61	24.59	−4	+5	28.41	33.61	−6	−5	29.98	43.93	+3	−6
16	14.68	19.02	0	+7	22.85	24.84	−6	+2	28.53	33.94	−4	−7	29.95	44.26	+4	−3
17	14.98	19.15	−2	+6	23.09	25.09	−6	0	28.65	34.27	−2	−7	29.92	44.59	+5	0
18	15.28	19.29	−5	+4	23.32	25.35	−7	−3	28.76	34.59	+1	−7	29.88	44.91	+4	+3
19	15.57	19.43	−6	+1	23.55	25.61	−6	−6	28.87	34.92	+3	−5	29.83	45.23	+3	+5
20	15.87	19.58	−7	−1	23.78	25.87	−4	−7	28.98	35.25	+4	−3	29.78	45.55	0	+7
21	16.17	19.73	−7	−4	24.00	26.13	−1	−8	29.08	35.59	+5	+1	29.73	45.87	−3	+6
22	16.46	19.89	−6	−7	24.22	26.40	+1	−7	29.18	35.92	+3	+4	29.67	46.18	−6	+4
23	16.75	20.05	−4	−8	24.44	26.67	+3	−4	29.27	36.25	+1	+6	29.60	46.49	−7	+1
24	17.04	20.21	−1	−8	24.65	26.95	+4	−1	29.36	36.59	−2	+7	29.53	46.80	−7	−2
25	17.32	20.38	+2	−7	24.86	27.23	+4	+2	29.44 29.52	36.92 37.25	−5 −7	+5 +3	29.45	47.11	−5	−5
26	17.61	20.55	+4	−4	25.07	27.51	+2	+5	29.59	37.59	−7	0	29.37	47.42	−1	−7
27	17.89	20.73	+5	0	25.27	27.79	0	+7	29.65	37.92	−6	−4	29.28	47.73	+2	−7
28	18.17	20.91	+4	+4	25.47	28.07	−3	+7	29.71	38.26	−3	−6	29.19	48.03	+6	−5
29	18.45	21.10	+2	+6	25.67	28.36	−6	+5	29.77	38.60	+1	−7	29.09	48.33	+8	−2
30	18.73	21.29	−1	+7	25.86	28.65	−7	+2	29.82	38.93	+4	−6	28.99	48.62	+9	+1
31	19.01	21.48	−4	+6	26.05	28.94	−6	−2	29.87	39.27	+7	−4	28.88	48.91	+8	+4
32					26.24	29.24	−4	−5					28.77	49.20	+6	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 23′ 10″	12.432	+ 12.391	+85° 23′ 30″	12.446	+ 12.406	+85° 23′ 40″	12.454	+ 12.414
20	12.439	+ 12.399	40	12.454	+ 12.414	50	12.461	+ 12.421

$\alpha_{1940.0} = 4^h\ 16^m\ 52^s.60$ $\delta_{1940.0} = +85°\ 23'\ 37''.04$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$7^h 13^m$	87° 8′	$0^s.01$	$0''.01$	$7^h 13^m$	87° 8′	$0^s.01$	$0''.01$	$7^h 13^m$	87° 8′	$0^s.01$	$0''.01$	$7^h 13^m$	87° 8′	$0^s.01$	$0''.01$
1	$35^s.43$	$26''.76$	+ 6	+6	$36^s.02$	$36''.82$	− 7	−3	$29^s.22$	$44''.35$	− 2	−7	$17^s.12$	$47''.98$	+12	−4
2	35.58	27.06	+ 1	+7	35.90	37.12	− 5	−6	28.89	44.55	+ 2	−8	16.70	48.00	+12	−1
3	35.73	27.37	− 3	+6	35.76	37.42	− 1	−7	28.55	44.75	+ 6	−8	16.27	48.02	+11	+1
4	35.87	27.68	− 7	+3	35.62	37.72	+ 3	−8	28.20	44.94	+10	−6	15.85	48.03	+ 8	+4
5	36.00	27.99	− 8	0	35.47	38.02	+ 7	−7	27.85	45.12	+11	−3	15.43	48.04	+ 4	+6
6	36.12	28.30	− 7	−4	35.31	38.31	+10	−5	27.50	45.30	+11	0	15.01	48.04	0	+7
7	36.23	28.61	− 4	−6	35.14	38.60	+11	−2	27.14	45.47	+ 9	+3	14.59	48.03	− 4	+7
8	36.33	28.93	0	−8	34.96	38.89	+10	+1	26.78	45.64	+ 6	+5	14.16	48.01	− 8	+5
9	36.43	29.24	+ 4	−8	34.78	39.18	+ 8	+3	26.41	45.80	+ 3	+6	13.74	47.99	−11	+3
10	36.51 36.59	29.56 29.87	+ 8 +10	−6 −4	34.59	39.46	+ 5	+6	26.04	45.96	− 2	+7	13.32	47.97	−12	0
11	36.65	30.19	+11	−1	34.39	39.74	+ 1	+7	25.66	46.11	− 6	+7	12.90	47.94	−12	−2
12	36.71	30.51	+10	+2	34.18	40.02	− 4	+7	25.28	46.26	−10	+5	12.48	47.90	− 9	−5
13	36.76	30.83	+ 7	+5	33.96	40.29	− 9	+6	24.90	46.40	−13	+2	12.06	47.86	− 5	−6
14	36.80	31.15	+ 3	+6	33.73	40.56	−12	+4	24.51	46.54	−14	0	11.64	47.81	0	−6
15	36.83	31.47	− 1	+8	33.50	40.83	−14	+1	24.12	46.67	−12	−3	11.23	47.76	+ 4	−4
16	36.85	31.79	− 6	+7	33.26	41.09	−14	−2	23.73	46.79	− 8	−6	10.83	47.70	+ 7	−1
17	36.86	32.11	−10	+6	33.01	41.35	−11	−5	23.33	46.91	− 3	−6	10.42	47.63	+ 8	+2
18	36.87	32.43	−13	+3	32.76	41.61	− 6	−6	22.93	47.02	+ 2	−5	10.01	47.55	+ 7	+6
19	36.87	32.74	−14	0	32.50	41.86	0	−6	22.53	47.13	+ 6	−3	9.61	47.47	+ 3	+7
20	36.86	33.06	−12	−4	32.24	42.11	+ 5	−5	22.12	47.23	+ 9	0	9.21	47.39	− 2	+8
21	36.84	33.38	− 8	−6	31.97	42.35	+ 9	−2	21.71	47.33	+ 9	+4	8.80	47.30	− 6	+6
22	36.81	33.70	− 3	−7	31.69	42.59	+10	+2	21.30	47.42	+ 6	+6	8.40	47.20	− 8	+2
23	36.77	34.01	+ 3	−6	31.40	42.83	+ 9	+5	20.89	47.50	+ 2	+8	8.01	47.10	− 8	−1
24	36.72	34.33	+ 8	−4	31.11	43.06	+ 5	+7	20.48	47.58	− 3	+7	7.62	46.99	− 6	−5
25	36.66	34.65	+11	0	30.81	43.29	+ 1	+7	20.06	47.65	− 6	+4	7.23	46.88	− 2	−7
26	36.59	34.97	+11	+3	30.50	43.51	− 4	+5	19.65	47.71	− 8	0	6.84	46.76	+ 3	−8
27	36.52	35.28	+ 8	+6	30.19	43.73	− 7	+2	19.23	47.77	− 7	−3	6.46	46.64	+ 7	−8
28	36.44	35.59	+ 4	+7	29.87	43.94	− 7	−1	18.81	47.82	− 4	−6	6.08	46.51	+11	−6
29	36.35	35.90	− 1	+7	29.55	44.15	− 6	−5	18.39	47.87	0	−8	5.71	46.38	+13	−3
30	36.25	36.21	− 5	+4	29.22	44.35	− 2	−7	17.97	47.91	+ 5	−8	5.34	46.24	+12	0
31	36.14	36.51	− 7	+1					17.54	47.95	+ 9	−7	4.98	46.09	+10	+3
32	36.02	36.82	− 7	−3					17.12	47.98	+12	−4				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 8′ 20″	20.034	+ 20.009	+87° 8′ 30″	20.053	+ 20.029	+87° 8′ 40″	20.073	+ 20.048
30	20.053	+ 20.029	40	20.073	+ 20.048	50	20.093	+ 20.068

$\alpha_{1940.0} = 7^h\ 13^m\ 7^s.74$ $\delta_{1940.0} = +87°\ 8'\ 39''.70$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^{m}.26$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$7^h\ 12^m$	$+87°\ 8'$	in 0.01^s	in $0.01''$	$7^h\ 12^m$	$+87°\ 8'$	in 0.01^s	in $0.01''$	$7^h\ 12^m$	$+87°\ 8'$	in 0.01^s	in $0.01''$	$7^h\ 12^m$	$+87°\ 8'$	in 0.01^s	in $0.01''$
	s	"			s	"			s	"			s	"		
1	64.98	46.09	+10	+3	56.29	39.42	−5	+7	53.99	30.37	−12	+1	58.48	20.70	−2	−7
2	64.62	45.94	+6	+5	56.11	39.15	−9	+5	54.03	30.05	−12	−2	58.73	20.41	+3	−6
3	64.27	45.79	+2	+6	55.93	38.87	−11	+2	54.08	29.73	−9	−5	58.99	20.12	+7	−3
4	63.92	45.63	−2	+7	55.76	38.59	−12	0	54.13	29.41	−5	−6	59.26	19.83	+10	0
5	63.57	45.47	−7	+6	55.60	38.31	−11	−3	54.19	29.09	+1	−7	59.53	19.54	+10	+3
6	63.23	45.30	−10	+4	55.45	38.03	−7	−6	54.26	28.77	+5	−5	59.81	19.26	+7	+6
7	62.89	45.12	−12	+1	55.30	37.74	−2	−7	54.33	28.45	+9	−2	60.09	18.97	+3	+7
8	62.56	44.94	−12	−2	55.16	37.45	+2	−6	54.41	28.13	+10	+1	60.38	18.69	−2	+6
9	62.23	44.76	−10	−4	55.03	37.16	+7	−4	54.50	27.81	+9	+4	60.67	18.41	−6	+4
10	61.91	44.58	−6	−6	54.91	36.87	+9	−1	*)54.60	27.50	+5	+7	60.97	18.13	−8	+1
11	61.60	44.39	−1	−6	54.79	36.58	+9	+3	54.70	27.18	0	+7	61.28	17.86	−7	−3
12	61.29	44.19	+3	−5	54.68	36.28	+6	+6	54.81	26.86	−4	+6	61.59	17.59	−5	−6
13	60.98	43.99	+7	−3	54.58	35.98	+2	+7	54.93	26.54	−8	+3	61.91	17.32	−1	−8
14	60.68	43.79	+9	+1	54.48	35.68	−2	+7	55.06	26.22	−9	0	62.24	17.06	+4	−8
15	60.38	43.58	+8	+4	54.39	35.37	−7	+5	55.19	25.90	−7	−4	62.57	16.80	+8	−7
16	60.09	43.37	+4	+7	54.31	35.07	−9	+2	55.33	25.59	−4	−6	62.90	16.54	+11	−4
17	59.81	43.15	0	+8	54.24	34.76	−9	−1	55.48	25.28	0	−8	63.24	16.28	+12	−2
18	59.53	42.93	−5	+7	54.17	34.46	−7	−5	55.63	24.96	+5	−8	63.59	16.02	+11	+1
19	59.26	42.70	−8	+4	54.11	34.15	−3	−7	55.79	24.65	+9	−6	63.94	15.77	+8	+4
20	58.99	42.47	−9	+1	54.06	33.84	+2	−8	55.96	24.34	+11	−3	64.29	15.52	+5	+6
21	58.73	42.23	−8	−3	54.02	33.53	+7	−7	56.13	24.03	+11	0	64.65	15.28	0	+7
22	58.48	41.99	−5	−6	53.98	33.22	+10	−5	56.31	23.72	+10	+3	65.02	15.04	−4	+6
23	58.23	41.75	0	−8	53.95	32.90	+12	−2	56.50	23.41	+7	+5	65.39	14.80	−8	+5
24	57.99	41.50	+5	−8	53.93	32.59	+11	+1	56.69	23.10	+3	+7	65.77	14.56	−12	+3
25	57.75	41.25	+9	−7	53.92	32.27	+9	+3	56.89	22.79	−2	+7	66.15	14.33	−13	0
26	57.52	41.00	+12	−4	53.91	31.96	+6	+6	57.10	22.49	−6	+6	66.53	14.10	−13	−2
27	57.30	40.74	+12	−1	53.91	31.64	+1	+7	57.31	22.19	−10	+4	66.92	13.87	−10	−5
28	57.09	40.48	+11	+2	53.92	31.32	−4	+7	57.53	21.89	−12	+2	67.31	13.65	−6	−6
29	56.88	40.22	+8	+5	53.94	31.00	−8	+6	57.76	21.59	−13	−1	67.71	13.43	0	−6
30	56.68	39.96	+4	+6	53.96	30.69	−11	+3	57.99	21.29	−11	−4	68.11	13.21	+4	−4
31	56.48	39.69	−1	+7	53.99	30.37	−12	+1	58.23	20.99	−8	−6	68.52	13.00	+8	−1
32	56.29	39.42	−5	+7					58.48	20.70	−2	−7	68.93	12.79	+9	+2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 8′ 10″	20.015	+19.990	+87° 8′ 30″	20.053	+20.029	+87° 8′ 40″	20.073	+20.048
20	20.034	+20.009	40	20.073	+20.048	50	20.093	+20.068

$\alpha_{1940.0} = 7^h\ 13^m\ 7^s.74$ $\delta_{1940.0} = +87°\ 8'\ 39''.70$

*) Tag der doppelten unteren Kulmination: Juli 10.

Nd) 51 Hev. Cephei $5^{m}.26$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$7^h 13^m$	+ 87° 8′	in $0^s.01$	in $0''.01$	$7^h 13^m$	+ 87° 8′	in $0^s.01$	in $0''.01$	$7^h 13^m$	+ 87° 8′	in $0^s.01$	in $0''.01$	$7^h 13^m$	+ 87° 8′	in $0^s.01$	in $0''.01$
1	$8^s.93$	$12''.79$	+9	+2	$22^s.85$	$8''.31$	+1	+8	$38^s.53$	$8''.02$	−9	−1	$51^s.87$	$12''.25$	0	−8
2	9.35	12.58	+8	+5	23.35	8.23	−4	+7	39.02	8.09	−6	−5	52.25	12.46	+6	−8
3	9.77	12.38	+4	+7	23.85	8.16	−7	+4	39.51	8.16	−2	−7	52.62	12.68	+10	−6
4	10.20	12.18	0	+8	24.35	8.09	−9	+1	39.99	8.24	+4	−8	52.98	12.90	+13	−3
5	10.63	11.98	−5	+6	24.86	8.02	−7	−3	40.48	8.33	+9	−8	53.34	13.13	+13	0
6	11.06	11.79	−8	+3	25.36	7.95	−4	−6	40.96	8.42	+12	−5	53.69	13.36	+12	+3
7	11.49	11.60	−8	−1	25.86	7.89	+1	−8	41.44	8.51	+14	−2	54.04	13.59	+8	+5
8	11.93	11.42	−6	−5	26.37	7.84	+6	−8	41.92	8.61	+13	+1	54.38	13.83	+4	+6
9	12.37	11.24	−2	−7	26.88	7.79	+10	−7	42.39	8.72	+10	+4	54.71	14.07	−1	+6
10	12.82	11.06	+3	−8	27.39	7.74	+13	−4	42.86	8.83	+6	+5	55.04	14.31	−5	+6
11	13.27	10.89	+7	−8	27.90	7.70	+13	−1	43.33	8.94	+2	+6	55.36	14.56	−9	+4
12	13.72	10.72	+11	−6	28.41	7.67	+11	+2	43.80	9.06	−3	+6	55.67	14.81	−11	+1
13	14.18	10.55	+12	−3	28.92	7.64	+8	+4	44.26	9.19	−7	+5	55.97	15.07	−11	−2
14	14.64	10.39	+12	0	29.43	7.61	+4	+6	44.72	9.32	−9	+3	56.27	15.33	−9	−4
15	15.10	10.23	+10	+3	29.94	7.59	0	+6	45.18	9.45	−11	0	56.56	15.59	−6	−6
16	15.57	10.08	+6	+5	30.45	7.58	−5	+6	45.63	9.59	−11	−2	56.85	15.85	−2	−6
17	16.04	9.93	+2	+6	30.96	7.57	−8	+4	46.08	9.74	−9	−4	57.13	16.12	+2	−5
18	16.51	9.79	−2	+6	31.47	7.56	−11	+2	46.52	9.89	−5	−6	57.40	16.39	+6	−3
19	16.98	9.65	−7	+6	31.98	7.56	−12	0	46.96	10.04	−1	−6	57.66	16.67	+8	0
20	17.46	9.52	−10	+4	32.49	7.57	−11	−3	47.40	10.20	+3	−5	57.92	16.95	+8	+3
21	17.94	9.39	−12	+1	33.00	7.58	−9	−5	47.83	10.36	+6	−2	58.17	17.23	+5	+6
22	18.42	9.26	−13	−1	33.51	7.59	−5	−6	48.26	10.53	+8	+1	58.41	17.51	+1	+7
23	18.91	9.14	−11	−4	34.02	7.61	0	−6	48.68	10.71	+7	+4	58.64	17.80	−3	+7
24	19.39	9.02	−8	−6	34.52	7.64	+4	−4	49.10	10.89	+3	+7	58.86	18.09	−8	+6
25	19.88	8.91	−3	−6	35.02	7.67	+7	−1	49.51	11.07	−1	+8	59.07	18.38	−10	+2
26	20.37	8.80	+2	−5	35.53	7.70	+7	+2	49.92	11.25	−6	+7	59.28	18.68	−10	−1
27	20.86	8.69	+6	−3	36.03	7.74	+5	+6	50.32	11.44	−9	+4	59.48	18.98	−7	−5
28	21.35	8.59	+8	+1	36.53	7.79	+2	+8	50.71	11.64	−10	+1	59.67	19.28	−3	−7
29	21.85	8.49	+8	+4	37.03	7.84	−3	+8	51.10	11.84	−9	−3	59.86	19.58	+2	−8
30	22.35	8.40	+5	+7	37.53	7.89	−7	+6	51.49	12.04	−5	−6	60.03	19.89	+8	−7
31	22.85	8.31	+1	+8	38.03	7.95	−9	+3	51.87	12.25	0	−8	60.20	20.19	+11	−5
32					38.53	8.02	−9	−1					60.36	20.49	+13	−2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 8′ 0″	19.995	+ 19.970	+87° 8′ 10″	20.015	+ 19.990	+87° 8′ 20″	20.034	+ 20.009
10	20.015	+ 19.990	20	20.034	+ 20.009	30	20.053	+ 20.029

$\alpha_{1940.0} = 7^h\ 13^m\ 7^s.74$ $\delta_{1940.0} = +87°\ 8'\ 39''.70$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$
1	$46^s.65$	$17''.11$	+3	+3	$49^s.58$	$24''.54$	−2	+3	$49^s.77$	$33''.65$	−2	−5	$47^s.38$	$41''.65$	+3	−8
2	46.78	17.29	+2	+5	49.63	24.83	−3	0	49.73	33.95	−1	−8	47.27	41.85	+4	−6
3	46.91	17.47	0	+6	49.68	25.12	−3	−3	49.69	34.25	+1	−9	47.15	42.04	+4	−3
4	47.04	17.66	−2	+5	49.72	25.42	−2	−6	49.64	34.55	+2	−8	47.03	42.23	+4	0
5	47.16	17.85	−3	+2	49.76	25.72	−1	−8	49.59	34.84	+3	−7	46.92	42.41	+3	+3
6	47.29	18.05	−3	−1	49.80	26.02	+1	−8	49.54	35.13	+4	−4	46.80	42.59	+1	+6
7	47.41	18.25	−3	−4	49.84	26.32	+2	−7	49.49	35.42	+4	−1	46.68	42.76	0	+7
8	47.53	18.46	−2	−6	49.87	26.62	+3	−5	49.43	35.70	+3	+2	46.56	42.93	−2	+7
9	47.64	18.67	0	−8	49.90	26.92	+4	−3	49.37	35.99	+2	+5	46.44	43.10	−3	+6
10	47.75	18.88	+1	−8	49.93	27.22	+4	0	49.31	36.27	+1	+7	46.32	43.26	−4	+5
11	47.86	19.10	+3	−7	49.95	27.53	+3	+3	49.25	36.55	−1	+8	46.20	43.41	−5	+2
12	47.97	19.32	+3	−4	49.97	27.84	+2	+6	49.18	36.83	−3	+8	46.07	43.56	−4	−1
13	48.08	19.55	+4	−2	49.99 50.00	28.14 28.45	0 −2	+7 +8	49.11	37.11	−4	+7	45.95	43.70	−3	−3
14	48.18	19.78	+3	+1	50.01	28.76	−4	+8	49.04	37.38	−5	+5	45.82	43.84	−1	−5
15	48.28	20.02	+2	+4	50.02	29.07	−5	+6	48.97	37.65	−5	+1	45.70	43.97	+1	−5
16	48.38	20.26	+1	+7	50.03	29.38	−5	+3	48.90	37.91	−4	−1	45.57	44.09	+2	−4
17	48.48	20.50	−1	+8	50.03	29.69	−5	0	48.82	38.17	−2	−4	45.44	44.21	+4	−1
18	48.57	20.75	−3	+8	50.03	30.00	−3	−3	48.74	38.43	0	−5	45.31	44.33	+3	+2
19	48.66	21.00	−4	+7	50.02	30.31	−1	−5	48.66	38.69	+2	−5	45.18	44.44	+2	+5
20	48.74	21.25	−5	+5	50.01	30.62	+1	−6	48.57	38.94	+3	−3	45.05	44.54	+1	+7
21	48.83	21.51	−5	+1	50.00	30.92	+3	−5	48.48	39.19	+4	0	44.92	44.64	−1	+7
22	48.91	21.77	−4	−2	49.99	31.23	+4	−2	48.39	39.43	+3	+3	44.78	44.74	−2	+5
23	48.99	22.03	−2	−5	49.97	31.54	+4	+1	48.30	39.67	+2	+6	44.65	44.83	−3	+2
24	49.07	22.30	0	−6	49.95	31.84	+3	+4	48.20	39.91	0	+7	44.52	44.91	−3	−2
25	49.14	22.57	+2	−6	49.93	32.14	+2	+6	48.11	40.14	−1	+6	44.38	44.99	−2	−5
26	49.21	22.84	+4	−4	49.91	32.45	0	+6	48.01	40.37	−3	+3	44.25	45.06	−1	−8
27	49.28	23.12	+4	−1	49.88	32.75	−2	+4	47.90	40.59	−3	0	44.11	45.13	+1	−9
28	49.34	23.40	+4	+2	49.85	33.05	−3	+1	47.80	40.81	−3	−4	43.98	45.19	+3	−8
29	49.40	23.68	+3	+5	49.81	33.35	−3	−2	47.70	41.03	−1	−7	43.84	45.24	+4	−7
30	49.46	23.96	+1	+6	49.77	33.65	−2	−5	47.59	41.24	0	−9	43.71	45.29	+4	−4
31	49.52	24.25	−1	+5					47.48	41.45	+2	−9	43.57	45.33	+4	−1
32	49.58	24.54	−2	+3					47.38	41.65	+3	−8				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 35′ 10″	6.834	+6.761	+81° 35′ 30″	6.839	+6.765	+81° 35′ 40″	6.841	+6.767
20	6.836	+6.763	40	6.841	+6.767	50	6.843	+6.770

$\alpha_{1940.0} = 9^h\ 28^m\ 41^s.70$ $\delta_{1940.0} = +81°\ 35'\ 39''.16$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$	$9^h 28^m$	$+81° 35'$	in $0^s.01$	in $0''.01$
1	43.57	45.33	+4	−1	39.55	43.87	0	+7	36.75	37.89	−4	+5	35.71	28.57	−2	−5
2	43.44	45.37	+3	+2	39.43	43.74	−2	+7	36.69	37.63	−5	+2	35.71	28.24	0	−6
3	43.30	45.40	+2	+5	39.31	43.60	−3	+6	36.63	37.37	−4	−1	35.72	27.91	+2	−5
4	43.16	45.43	0	+6	39.20	43.46	−4	+4	36.57	37.10	−3	−4	35.72	27.58	+3	−4
5	43.03	45.45	−1	+7	39.09	43.31	−4	+1	36.51	36.83	−1	−6	35.73	27.24	+4	−1
6	42.89	45.46	−3	+7	38.98	43.16	−4	−2	36.45	36.55	+1	−6	35.74	26.91	+4	+2
7	42.76	45.47	−4	+5	38.87	43.00	−2	−4	36.40	36.27	+3	−5	35.75	26.57	+2	+5
8	42.62	45.47	−4	+3	38.76	42.84	0	−6	36.34	35.99	+4	−2	35.77	26.24	0	+6
9	42.49	45.47	−4	0	38.65	42.67	+2	−5	36.29	35.71	+4	+1	35.78	25.90	−1	+6
10	42.35	45.46	−3	−3	38.55	42.49	+3	−4	36.24	35.43	+3	+4	35.80	25.56	−3	+4
11	42.22	45.45	−2	−5	38.45	42.31	+4	−1	36.19	35.14	+1	+6	35.82	25.22	−3	0
12	42.08	45.43	0	−5	38.35	42.13	+3	+2	36.15	34.85	0	+6	35.84	24.88	−3	−3
13	41.95	45.40	+2	−5	38.25	41.94	+2	+5	36.11	34.56	−2	+5	*)35.87	24.54	−2	−6
14	41.81	45.37	+3	−2	38.15	41.75	0	+7	36.07	34.27	−3	+3	35.90	24.20	0	−8
15	41.68	45.33	+3	+1	38.05	41.55	−1	+7	36.03	33.97	−3	0	35.93	23.86	+1	−8
16	41.55	45.29	+3	+4	37.96	41.35	−3	+5	36.00	33.67	−3	−4	35.97	23.52	+3	−7
17	41.41	45.24	+1	+6	37.87	41.15	−4	+2	35.96	33.37	−1	−7	36.00	23.18	+4	−5
18	41.28	45.18	0	+7	37.78	40.94	−3	−2	35.93	33.06	0	−8	36.04	22.84	+4	−3
19	41.15	45.12	−2	+6	37.69	40.73	−2	−5	35.90	32.75	+2	−8	36.08	22.49	+4	0
20	41.02	45.06	−3	+4	37.60	40.52	−1	−7	35.87	32.44	+3	−7	36.12	22.15	+3	+3
21	40.89	44.99	−4	0	37.51	40.30	+1	−8	35.84	32.13	+4	−4	36.16	21.81	+1	+5
22	40.77	44.92	−3	−3	37.43	40.08	+3	−8	35.82	31.81	+4	−1	36.20	21.47	0	+7
23	40.64	44.84	−2	−7	37.35	39.85	+4	−6	35.80	31.50	+3	+2	36.25	21.13	−2	+7
24	40.51	44.75	0	−8	37.27	39.62	+4	−3	35.78	31.18	+2	+4	36.31	20.79	−4	+7
25	40.39	44.66	+2	−9	37.19	39.38	+4	0	35.77	30.86	+1	+6	36.36	20.45	−4	+5
26	40.27	44.56	+3	−8	37.11	39.14	+3	+3	35.75	30.54	−1	+8	36.41	20.11	−5	+2
27	40.14	44.46	+4	−5	37.04	38.90	+2	+5	35.74	30.21	−3	+7	36.47	19.77	−5	−1
28	40.02	44.35	+4	−2	36.96	38.65	0	+7	35.73	29.89	−4	+6	36.53	19.43	−3	−3
29	39.90	44.24	+4	+1	36.89	38.40	−2	+7	35.72	29.56	−5	+4	36.58	19.10	−1	−5
30	39.78	44.12	+3	+4	36.82	38.15	−3	+7	35.72	29.23	−5	+1	36.64	18.76	+1	−5
31	39.66	44.00	+1	+6	36.75	37.89	−4	+5	35.71	28.90	−4	−2	36.71	18.42	+3	−4
32	39.55	43.87	0	+7					35.71	28.57	−2	−5	36.78	18.09	+4	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 35′ 10″	6.834	+6.761	+81° 35′ 30″	6.839	+6.765	+81° 35′ 40″	6.841	+6.767
20	6.836	+6.763	40	6.841	+6.767	50	6.843	+6.770

$\alpha_{1940.0} = 9^h\ 28^m\ 41^s.70$ $\delta_{1940.0} = +81°\ 35'\ 39''.16$

*) Tag der doppelten unteren Kulmination: Aug. 13.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^{m}.58$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h 28^m$	$+81° 35'$	in 0.01^s	in $0.01''$	$9^h 28^m$	$+81° 35'$	in 0.01^s	in $0.01''$	$9^h 28^m$	$+81° 34'$	in 0.01^s	in $0.01''$	$9^h 28^m$	$+81° 34'$	in 0.01^s	in $0.01''$
1	36.78^s	$18.09''$	+4	−1	39.70^s	$8.77''$	+2	+6	44.22^s	$61.95''$	−4	+2	49.30^s	$59.67''$	−1	−7
2	36.85	17.75	+4	+2	39.82	8.50	0	+7	44.38	61.80	−3	−2	49.47	59.68	0	−9
3	36.92	17.42	+3	+4	39.95	8.23	−2	+6	44.55	61.65	−2	−6	49.64	59.70	+2	−9
4	36.99	17.09	+1	+6	40.08	7.96	−3	+3	44.71	61.51	−1	−8	49.81	59.72	+4	−7
5	37.07	16.76	0	+6	40.21	7.69	−3	0	44.88	61.37	+1	−9	49.98	59.75	+5	−5
6	37.14	16.43	−2	+5	40.34	7.43	−3	−4	45.04	61.24	+3	−9	50.14	59.78	+5	−2
7	37.22	16.10	−3	+2	40.47	7.17	−1	−7	45.21	61.11	+4	−7	50.30	59.82	+4	+1
8	37.30	15.77	−3	−2	40.60	6.92	0	−9	45.37	60.99	+5	−4	50.47	59.87	+3	+4
9	37.38	15.45	−2	−5	40.74	6.67	+2	−9	45.54	60.87	+4	0	50.63	59.92	+1	+6
10	37.47	15.12	−1	−8	40.87	6.42	+4	−8	45.71	60.76	+3	+2	50.80	59.98	−1	+6
11	37.56	14.79	+1	−9	41.01	6.18	+4	−5	45.88	60.65	+2	+5	50.96	60.04	−2	+6
12	37.65	14.47	+3	−8	41.15	5.94	+4	−2	46.05	60.55	0	+6	51.12	60.11	−3	+5
13	37.74	14.16	+4	−7	41.29	5.70	+4	+1	46.22	60.46	−1	+6	51.28	60.18	−4	+3
14	37.83	13.84	+4	−4	41.44	5.47	+3	+3	46.39	60.37	−3	+6	51.44	60.26	−4	0
15	37.93	13.52	+4	−1	41.58	5.24	+1	+5	46.56	60.28	−4	+4	51.60	60.34	−3	−3
16	38.02	13.21	+3	+2	41.73	5.01	0	+6	46.73	60.20	−4	+2	51.75	60.43	−2	−4
17	38.12	12.90	+2	+4	41.87	4.79	−2	+6	46.91	60.13	−4	−1	51.91	60.53	0	−5
18	38.22	12.58	0	+6	42.02	4.57	−3	+6	47.08	60.06	−3	−3	52.07	60.63	+2	−5
19	38.32	12.27	−1	+7	42.17	4.35	−4	+4	47.25	59.99	−2	−5	52.22	60.74	+3	−3
20	38.43	11.97	−3	+7	42.32	4.14	−4	+1	47.42	59.93	0	−5	52.38	60.86	+3	0
21	38.53	11.66	−4	+6	42.47	3.93	−4	−1	47.59	59.88	+2	−4	52.53	60.98	+3	+3
22	38.64	11.36	−5	+4	42.63	3.73	−3	−3	47.77	59.83	+3	−2	52.67	61.10	+2	+6
23	38.75	11.06	−5	+1	42.78	3.53	−1	−5	47.94	59.79	+3	+1	52.82	61.23	0	+7
24	38.86	10.77	−4	−2	42.93	3.34	+1	−5	48.11	59.76	+2	+4	52.97	61.37	−2	+7
25	38.98	10.48	−2	−4	43.09	3.15	+2	−3	48.28	59.73	+1	+7	53.11	61.51	−3	+6
26	39.09	10.19	0	−5	43.25	2.97	+3	0	48.45	59.71	−1	+8	53.25	61.65	−4	+2
27	39.21	9.90	+2	−4	43.41	2.79	+3	+3	48.62	59.69	−2	+7	53.40	61.80	−4	−1
28	39.33	9.61	+3	−2	43.57	2.61	+2	+6	48.79	59.68	−3	+4	53.54	61.96	−2	−5
29	39.45	9.33	+3	+1	43.73	2.44	+1	+7	48.96	59.67	−4	+1	53.67	62.13	−1	−8
30	39.57	9.05	+3	+4	43.89	2.27	−1	+7	49.13	59.67	−3	−4	53.81	62.30	+1	−8
31	39.70	8.77	+2	+6	44.05	2.11	−3	+5	49.30	59.67	−1	−7	53.94	62.47	+3	−8
32					44.22	1.95	−4	+2					54.07	62.64	+4	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 34′ 50″	6.830	+6.756	+81° 35′ 0″	6.832	+6.758	+81° 35′ 10″	6.834	+6.761
60	6.832	+6.758	10	6.834	+6.761	20	6.836	+6.763

$\alpha_{1940.0} = 9^h\ 28^m\ 41^s.70$ $\delta_{1940.0} = +81°\ 35'\ 39''.16$

N†) 30 Hev. Camelopardalis $5^m.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		+	in			+	in			+	in			+	in	
	10^h23^m	82° 51′	$0^s.01$	0″.01	10^h24^m	82° 51′	$0^s.01$	0″.01	10^h24^m	82° 51′	$0^s.01$	0″.01	10^h23^m	82° 51′	$0^s.01$	0″.01
	s	″			s	″			s	″			s	″		
1	59.37	31.36	+4	+2	3.70	37.30	−2	+4	5.12	46.22	−3	−4	63.38	55.33	+2	−9
2	59.54	31.47	+3	+4	3.80	37.56	−3	+1	5.11	46.54	−2	−7	63.28	55.58	+4	−7
3	59.72	31.59	+1	+6	3.89	37.83	−4	−2	5.10	46.85	0	−8	63.18	55.83	+4	−4
4	59.89	31.71	−1	+5	3.98	38.10	−3	−5	5.09	47.17	+1	−9	63.07	56.08	+4	−1
5	60.05	31.84	−3	+4	4.07	38.37	−2	−7	5.07	47.48	+3	−7	62.96	56.32	+4	+2
6	60.22	31.98	−4	+1	4.15	38.65	0	−8	5.05	47.80	+4	−5	62.85	56.55	+2	+5
7	60.38	32.12	−4	−2	4.23	38.93	+2	−8	5.03	48.11	+4	−3	62.74	56.78	+1	+6
8	60.54	32.27	−3	−5	4.31	39.21	+3	−6	5.00	48.42	+4	0	62.62	57.01	−1	+7
9	60.70	32.42	−1	−7	4.38	39.50	+4	−4	4.97	48.73	+3	+3	62.50	57.24	−3	+7
10	60.85	32.58	0	−8	4.45	39.78	+4	−1	4.93	49.04	+2	+6	62.38	57.46	−4	+6
11	61.01	32.74	+2	−7	4.52	40.07	+4	+2	4.89	49.35	0	+7	62.26	57.67	−5	+4
12	61.16	32.91	+3	−5	4.58	40.36	+3	+5	4.85	49.66	−2	+8	62.14	57.88	−5	+1
13	61.31	33.08	+4	−3	4.64	40.66	+1	+7	4.81	49.96	−4	+8	62.01	58.09	−4	−2
14	61.46	33.26	+4	0	4.70	40.96	−1	+8	4.76	50.27	−5	+6	61.88	58.29	−2	−4
15	61.61	33.44	+3	+3	4.75	41.26	−3	+9	4.71	50.58	−5	+3	61.75	58.49	0	−5
16	61.75	33.63	+2	+6	4.80	41.57	−4	+8	4.65	50.88	−5	0	61.62	58.68	+2	−4
17	61.89	33.83	0	+8	4.85	41.87	−5	+5	4.59	51.18	−3	−3	61.49	58.87	+4	−2
18	62.03	34.03	−2	+9	4.89	42.17	−5	+2	4.53	51.47	−1	−5	61.35	59.05	+4	+1
19	62.17	34.24	−4	+8	4.93	42.48	−4	−1	4.47	51.76	+1	−5	61.22	59.23	+3	+4
20	62.31	34.45	−5	+7	4.97	42.79	−2	−4	4.40	52.05	+3	−4	61.08	59.40	+2	+6
21	62.44	34.66	−6	+3	5.00	43.10	0	−6	4.33	52.34	+4	−1	60.94	59.57	0	+7
22	62.57	34.88	−5	0	5.03	43.41	+3	−5	4.26	52.63	+4	+2	60.80	59.73	−2	+6
23	62.70	35.10	−3	−3	5.05	43.72	+4	−4	4.19	52.91	+3	+4	60.65	59.89	−3	+3
24	62.82	35.33	−1	−6	5.07	44.03	+5	−1	4.11	53.19	+1	+6	60.50	60.04	−4	0
25	62.94	35.56	+2	−6	5.09	44.34	+4	+2	4.03	53.47	−1	+6	60.36	60.19	−3	−4
26	63.06	35.80	+4	−5	5.10	44.66	+3	+4	3.95	53.75	−3	+4	60.21	60.33	−2	−7
27	63.17	36.04	+5	−3	{5.11 5.12	44.97 45.28	0 −2	+5} +4	3.86	54.02	−4	+1	60.06	60.46	0	−9
28	63.28	36.28	+5	0	5.12	45.60	−3	+2	3.77	54.29	−4	−3	59.91	60.59	+2	−9
29	63.39	36.53	+4	+3	5.12	45.91	−4	−1	3.68	54.56	−3	−6	59.76	60.72	+3	−8
30	63.50	36.78	+2	+5	5.12	46.22	−3	−4	3.58	54.82	−1	−8	59.61	60.84	+4	−6
31	63.60	37.04	0	+5					3.48	55.08	+1	−9	59.46	60.95	+4	−3
32	63.70	37.30	−2	+4					3.38	55.33	+2	−9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 51′ 30″	8.044	+7.981	+82° 51′ 50″	8.050	+7.987	+82° 52′ 0″	8.053	+7.991
40	8.047	+7.984	60	8.053	+7.991	10	8.056	+7.994

$\alpha_{1940.0} = 10^h 23^m 56^s.58$ $\delta_{1940.0} = +82° 51' 55''.08$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

N f) 30 Hev. Camelopardalis $5^{m}.34$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$10^h 23^m$	+82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	+82° 51′	$0^s.01$	$0''.01$	$10^h 23^m$	+82° 51′	$0^s.01$	$0''.01$	$10^h 23^m$	+82° 51′	$0^s.01$	$0''.01$
1	59.46	0.95	+4	−3	54.57	61.69	0	+7	50.48	57.40	−4	+6	47.98	48.94	−3	−3
2	59.30	1.06	+4	0	54.42	61.62	−2	+7	50.37	57.18	−5	+4	47.94	48.62	−1	−5
3	59.15	1.17	+3	+3	54.26	61.55	−3	+7	50.26	56.96	−5	+1	47.90	48.29	+2	−6
4	58.99	1.27	+1	+6	54.11	61.47	−4	+5	50.15	56.74	−4	−2	47.86	47.97	+3	−4
5	58.84	1.36	0	+7	53.96	61.38	−5	+2	50.05	56.51	−2	−5	47.82	47.64	+4	−2
6	58.68	1.45	−2	+7	53.81	61.29	−4	0	49.94	56.27	0	−6	47.78	47.31	+4	+1
7	58.53	1.53	−4	+6	53.67	61.20	−3	−3	49.84	56.03	+2	−6	47.75	46.98	+3	+4
8	58.37	1.60	−4	+4	53.52	61.10	−1	−5	49.74	55.79	+4	−4	47.72	46.64	+1	+5
9	58.21	1.67	−5	+2	53.37	60.99	+1	−6	49.64	55.55	+5	−1	47.69	46.31	−1	+6
10	58.05	1.73	−4	−1	53.23	60.88	+3	−5	49.55	55.30	+4	+2	47.67	45.97	−2	+4
11	57.90	1.79	−2	−4	53.08	60.77	+4	−2	49.45	55.04	+2	+5	47.65	45.63	−4	+2
12	57.74	1.84	0	−5	52.94	60.65	+4	+1	49.36	54.78	0	+6	47.63	45.29	−4	−2
13	57.58	1.89	+2	−5	52.80	60.52	+3	+4	49.27	54.52	−2	+6	47.61	44.94	−3	−5
14	57.42	1.93	+3	−3	52.66	60.39	+1	+6	49.18	54.26	−3	+4	47.60	44.60	−1	−7
15	57.26	1.97	+4	−1	52.52	60.25	−1	+7	49.10	53.99	−4	+1	47.59	44.25	+1	−8
16	57.10	2.00	+4	+3	52.38	60.11	−2	+6	49.02	53.72	−4	−2	47.58	43.90	+2	−8
17	56.94	2.02	+2	+5	52.25	59.96	−4	+3	48.94	53.44	−2	−5	47.57	43.56	+3	−6
18	56.78	2.04	0	+7	52.11	59.81	−4	0	48.86	53.16	−1	−7	47.56	43.21	+4	−4
19	56.62	2.05	−2	+7	51.98	59.65	−3	−4	48.78	52.88	+1	−8	47.56	42.86	+4	−1
20	56.46	2.06	−3	+5	51.84	59.49	−2	−7	48.70	52.59	+3	−7	47.56	42.51	+4	+2
21	56.30	2.06	−4	+2	51.71	59.32	0	−8	48.63	52.30	+4	−6	47.57	42.15	+2	+4
22	56.14	2.05	−4	−2	51.58	59.15	+2	−8	48.56	52.01	+4	−3	47.57	41.79	+1	+7
23	55.98	2.04	−3	−5	51.45	58.97	+3	−7	48.49	51.72	+4	0	47.58	41.44	−1	+8
24	55.82	2.02	−1	−8	51.32	58.79	+4	−5	48.42	51.42	+3	+3	47.59	41.08	−3	+8
25	55.67	2.00	+1	−9	51.20	58.60	+4	−2	48.36	51.12	+2	+6	47.60	40.73	−4	+7
26	55.51	1.97	+3	−8	51.07	58.41	+4	+1	48.30	50.82	0	+7	47.62	40.37	−5	+4
27	55.35	1.94	+4	−7	50.95	58.22	+3	+4	48.24	50.51	−2	+8	*)47.64	40.01	−5	+1
28	55.20	1.90	+5	−4	50.83	58.02	+1	+6	48.18	50.20	−4	+7	47.66	39.65	−4	−2
29	55.04	1.86	+4	−1	50.71	57.82	−1	+8	48.12	49.89	−5	+5	47.68	39.30	−2	−4
30	54.88	1.81	+4	+2	50.60	57.61	−3	+8	48.07	49.58	−5	+3	47.71	38.94	0	−5
31	54.73	1.75	+2	+5	50.48	57.40	−4	+6	48.02	49.26	−5	0	47.74	38.58	+2	−5
32	54.57	1.69	0	+7					47.98	48.94	−3	−3	47.77	38.22	+4	−3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 51′ 30″	8.044	+7.981	+82° 51′ 40″	8.047	+7.984	+82° 52′ 0″	8.053	+7.991
40	8.047	+7.984	50	8.050	+7.987	10	8.056	+7.994

$\alpha_{1940.0} = 10^h\ 23^m\ 56^s.58$ $\delta_{1940.0} = +82°\ 51'\ 55''.08$

*) Tag der doppelten unteren Kulmination: Aug. 27.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	10^h23^m	$+82°51'$	in $0.^s01$	$0.''01$	10^h23^m	$+82°51'$	in $0.^s01$	$0.''01$	10^h23^m	$+82°51'$	in $0.^s01$	$0.''01$	10^h23^m	$+82°51'$	in $0.^s01$	$0.''01$
1	$47.^s77$	$38.''22$	+4	−3	$49.^s87$	$27.''71$	+3	+5	$54.^s17$	$18.''85$	−4	+3	$59.^s72$	$14.''19$	−3	−6
2	47.80	37.86	+5	0	49.98	27.38	+1	+6	54.34	18.63	−4	0	59.91	14.12	−1	−8
3	47.84	37.50	+4	+3	50.10	27.05	−1	+6	54.51	18.41	−3	−4	60.11	14.06	+1	−9
4	47.88	37.14	+2	+5	50.21	26.72	−3	+4	54.69	18.19	−2	−7	60.31	14.00	+3	−9
5	47.92	36.78	0	+6	50.32	26.40	−4	+1	54.86	17.97	0	−9	60.50	13.95	+4	−7
6	47.97	36.42	−2	+5	50.44	26.08	−4	−3	55.03	17.76	+2	−9	60.70	13.90	+5	−4
7	48.02	36.06	−3	+3	50.56	25.76	−2	−6	55.21	17.56	+4	−8	60.90	13.86	+5	0
8	48.07	35.71	−4	−1	50.67	25.45	−1	−9	55.38	17.36	+5	−5	61.09	13.83	+3	+2
9	48.12	35.35	−3	−4	50.79	25.14	+1	−9	55.56	17.16	+5	−2	61.29	13.80	+2	+5
10	48.17	34.99	−2	−7	50.92	24.83	+3	−9	55.74	16.97	+4	+1	61.48	13.78	0	+6
11	48.22	34.63	0	−9	51.05	24.52	+4	−7	55.92	16.78	+3	+3	61.68	13.76	−2	+6
12	48.28	34.27	+2	−9	51.18	24.22	+5	−4	56.10	16.60	+1	+5	61.87	13.75	−3	+6
13	48.34	33.91	+3	−7	51.31	23.92	+4	−1	56.28	16.43	−1	+6	62.07	13.75	−4	+4
14	48.41	33.56	+4	−5	51.44	23.62	+3	+2	56.47	16.26	−2	+6	62.26	13.76	−5	+2
15	48.48	33.21	+4	−2	51.58	23.32	+2	+4	56.65	16.09	−4	+5	62.45	13.77	−4	−1
16	48.55	32.85	+4	+1	51.71	23.03	0	+6	56.83	15.93	−5	+3	62.64	13.78	−3	−3
17	48.62	32.50	+3	+3	51.85	22.74	−1	+7	57.02	15.78	−4	+1	62.84	13.80	−1	−5
18	48.69	32.15	+1	+6	51.99	22.46	−3	+7	57.21	15.63	−4	−1	63.03	13.83	+1	−5
19	48.77	31.80	0	+7	52.13	22.18	−4	+5	57.40	15.48	−2	−4	63.22	13.86	+3	−4
20	48.85	31.45	−2	+7	52.28	21.90	−5	+3	57.59	15.34	0	−5	63.41	13.90	+4	−2
21	48.93	31.10	−4	+7	52.43	21.62	−5	+1	57.78	15.21	+2	−4	63.60	13.95	+4	+1
22	49.01	30.75	−5	+5	52.58	21.35	−4	−2	57.98	15.08	+3	−3	63.79	14.00	+3	+4
23	49.10	30.41	−5	+3	52.73	21.08	−2	−4	58.17	14.96	+4	0	63.97	14.06	+1	+7
24	49.19	30.06	−5	0	52.88	20.82	0	−4	58.36	14.84	+4	+3	64.16	14.13	−1	+7
25	49.28	29.72	−3	−3	53.04	20.56	+2	−4	58.55	14.73	+2	+6	64.34	14.20	−3	+6
26	49.37	29.38	−1	−4	53.19	20.30	+3	−2	58.75	14.63	0	+8	64.53	14.28	−4	+4
27	49.46	29.04	+1	−4	53.35	20.05	+4	+1	58.94	14.53	−2	+7	64.71	14.36	−4	0
28	49.56	28.71	+3	−3	53.51	19.80	+3	+4	59.14	14.44	−3	+5	64.89	14.45	−3	−4
29	49.66	28.37	+4	−1	53.67	19.56	+1	+7	59.33	14.35	−4	+2	65.07	14.54	−2	−7
30	49.77	28.04	+4	+2	53.84	19.32	0	+7	59.52	14.27	−4	−2	65.25	14.64	0	−8
31	49.87	27.71	+3	+5	54.00	19.08	−2	+6	59.72	14.19	−3	−6	65.43	14.75	+2	−9
32					54.17	18.85	−4	+3					65.60	14.86	+4	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 51′ 10″	8.037	+7.975	+82° 51′ 20″	8.040	+7.978	+82° 51′ 30″	8.044	+7.981
20	8.040	+7.978	30	8.044	+7.981	40	8.047	+7.984

$\alpha_{1940.0} = 10^h\ 23^m\ 56.^s58$ $\delta_{1940.0} = +82°\ 51'\ 55.''08$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$16^h 51^m$	82° 8′	$0^s.01$	$0''.01$	$16^h 51^m$	82° 8′	$0^s.01$	$0''.01$	$16^h 51^m$	82° 8′	$0^s.01$	$0''.01$	$16^h 52^m$	82° 8′	$0^s.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	51.30	19.03	+1	−7	54.32	10.30	+1	+3	58.73	6.67	−1	+7	3.56	8.81	−3	+1
2	51.36	18.70	+2	−5	54.45	10.09	0	+6	58.90	6.64	−2	+7	3.70	8.98	−3	−2
3	51.42	18.37	+2	−2	54.59	9.88	−1	+7	59.06	6.62	−3	+5	3.84	9.15	−2	−4
4	51.48	18.04	+2	+1	54.73	9.68	−2	+6	59.23	6.61	−3	+3	3.98	9.33	−1	−6
5	51.55	17.71	+1	+5	54.87	9.49	−2	+5	59.39	6.60	−3	0	4.12	9.51	0	−7
6	51.62	17.38	0	+7	55.01	9.30	−3	+2	59.55	6.60	−2	−3	4.25	9.70	+1	−6
7	51.69	17.06	−1	+7	55.15	9.12	−2	−1	59.71	6.60	−1	−5	4.38	9.89	+2	−5
8	51.77	16.74	−2	+6	55.29	8.95	−2	−3	59.88	6.61	−1	−6	4.51	10.09	+2	−3
9	51.85	16.43	−3	+4	55.44	8.78	−1	−5	60.04	6.63	0	−7	4.64	10.29	+3	0
10	51.93	16.12	−3	+1	55.58	8.61	0	−7	60.20	6.66	+1	−6	4.77	10.50	+2	+3
11	52.01	15.81	−2	−2	55.73	8.45	+1	−7	60.36	6.69	+2	−4	4.89	10.71	+2	+5
12	52.09	15.51	−2	−4	55.88	8.30	+2	−5	60.52	6.73	+3	−2	5.01	10.93	+1	+7
13	52.18	15.21	−1	−6	56.03	8.16	+2	−3	60.68	6.77	+3	+1	5.13	11.15	0	+8
14	52.27	14.91	0	−7	56.19	8.02	+3	−1	60.84	6.82	+2	+4	5.25	11.38	−1	+6
15	52.37	14.62	+1	−7	56.34	7.89	+3	+2	61.00	6.88	+2	+6	5.37	11.61	−1	+4
16	52.46	14.33	+2	−5	56.50	7.77	+2	+5	61.16	6.95	+1	+8	5.48	11.84	−2	0
17	52.56	14.04	+3	−3	56.65	7.65	+1	+7	61.31	7.02	0	+8	5.58	12.08	−1	−3
18	52.66	13.76	+3	+1	56.80	7.54	0	+8	61.47	7.10	−1	+6	5.69	12.33	0	−6
19	52.76	13.48	+3	+4	56.96	7.43	−1	+7	61.62	7.18	−2	+2	5.80	12.58	+1	−7
20	52.87	13.21	+2	+6	57.12	7.33	−2	+5	61.78	7.27	−2	−1	5.90	12.83	+2	−7
21	52.98	12.94	+1	+8	57.28	7.23	−2	+1	61.93	7.37	−1	−5	6.00	13.08	+2	−5
22	53.09	12.68	0	+8	57.44	7.14	−2	−3	62.09	7.47	0	−7	6.11	13.34	+2	−1
23	53.20	12.42	−1	+6	57.60	7.06	−1	−6	62.24	7.58	+1	−8	6.21	13.61	+2	+3
24	53.32	12.16	−2	+2	57.76	6.98	0	−8	62.40	7.69	+2	−6	6.30	13.88	+1	+5
25	53.44	11.91	−2	−2	57.92	6.91	+1	−7	62.55	7.81	+2	−3	6.39	14.15	−1	+7
26	53.56	11.66	−2	−5	58.08	6.85	+2	−5	62.70	7.94	+2	0	6.48	14.43	−2	+7
27	53.68	11.42	−1	−8	58.25	6.80	+2	−2	62.84	8.07	+1	+4	6.57	14.71	−3	+5
28	53.81	11.19	0	−8	58.41	6.75	+1	+2	62.99	8.21	0	+6	6.66	14.99	−3	+2
29	53.93	10.96	+1	−7	58.57	6.71	0	+5	63.14	8.35	−1	+7	6.74	15.27	−3	−1
30	54.06	10.73	+2	−4	58.73	6.67	−1	+7	63.28	8.50	−2	+6	6.82	15.56	−2	−4
31	54.19	10.51	+2	0					63.42	8.65	−3	+4	6.90	15.85	−2	−6
32	54.32	10.30	+1	+3					63.56	8.81	−3	+1				

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 0″	7.306	+7.238	+82° 8′ 10″	7.309	+7.240
10	7.309	+7.240	20	7.311	+7.243

$\alpha_{1940.0} = 16^h\ 52^m\ 2^s.49$ $\delta_{1940.0} = +82°\ 8'\ 20''.53$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^{h}52^{m}$	+82° 8′	in $0^{s}.01$	in $0''.01$	$16^{h}52^{m}$	+82° 8′	in $0^{s}.01$	in $0''.01$	$16^{h}52^{m}$	+82° 8′	in $0^{s}.01$	in $0''.01$	$16^{h}51^{m}$	+82° 8′	in $0^{s}.01$	in $0''.01$
1	$6^{s}.90$	$15''.85$	−2	−6	$7^{s}.94$	$25''.66$	+2	−5	$6^{s}.37$	$35''.11$	+2	+5	$62^{s}.60$	$41''.76$	−1	+6
2	6.97	16.14	−1	−7	7.93	25.99	+2	−2	6.28	35.38	+1	+7	62.45	41.91	−2	+2
3	7.04	16.43	0	−7	7.92	26.31	+3	+1	6.19	35.65	0	+8	62.30	42.05	−2	−1
4	7.11	16.73	+1	−6	7.90 / 7.88	26.64 / 26.96	+2 / +1	+3 / +6	6.09	35.91	−1	+7	62.14	42.19	−1	−5
5	7.18	17.03	+2	−4	7.86	27.28	+1	+7	5.99	36.17	−2	+4	61.99	42.32	0	−7
6	7.24	17.33	+2	−1	7.84	27.61	0	+7	5.89	36.43	−2	+1	61.83	42.45	0	−8
7	7.30	17.64	+2	+2	7.81	27.93	−1	+6	5.79	36.68	−2	−3	61.68	42.58	+1	−6
8	7.36	17.94	+2	+5	7.78	28.25	−2	+3	5.68	36.93	−1	−6	61.52	42.70	+2	−3
9	7.42	18.25	+1	+6	7.75	28.57	−2	−1	5.58	37.18	0	−7	61.36	42.82	+2	0
10	7.47	18.56	0	+7	7.71	28.89	−1	−4	5.47	37.42	+1	−7	61.20	42.93	+1	+3
11	7.52	18.87	−1	+7	7.67	29.20	0	−6	5.36	37.66	+2	−5	61.04	43.04	0	+6
12	7.57	19.18	−1	+5	7.63	29.52	+1	−7	5.25	37.89	+2	−2	60.88	43.14	−1	+7
13	7.62	19.50	−2	+2	7.59	29.84	+2	−6	5.14	38.12	+2	+2	60.72	43.24	−2	+6
14	7.66	19.82	−1	−2	7.54	30.15	+2	−4	5.02	38.35	+1	+5	60.55	43.33	−3	+4
15	7.70	20.14	−1	−5	7.49	30.45	+2	0	4.90	38.57	0	+7	60.39	43.42	−3	+1
16	7.74	20.46	0	−7	7.44	30.76	+2	+3	4.78	38.79	−1	+7	60.22	43.50	−3	−2
17	7.77	20.78	+1	−7	7.39	31.07	+1	+6	4.65	39.01	−2	+6	60.06	43.58	−2	−4
18	7.80	21.10	+2	−6	7.33	31.37	0	+7	4.53	39.22	−3	+3	59.89	43.65	−1	−6
19	7.83	21.42	+2	−3	7.27	31.67	−1	+7	4.40	39.43	−3	0	59.72	43.71	0	−7
20	7.86	21.74	+2	+1	7.21	31.98	−2	+5	4.27	39.63	−2	−3	59.55	43.77	+1	−6
21	7.88	22.07	+1	+4	7.15	32.28	−3	+2	4.14	39.83	−2	−5	59.38	43.83	+2	−5
22	7.90	22.40	0	+7	7.08	32.57	−3	−1	4.01	40.03	−1	−6	59.21	43.88	+2	−3
23	7.92	22.72	−1	+7	7.01	32.86	−2	−4	3.87	40.22	0	−7	59.04	43.93	+3	0
24	7.93	23.05	−2	+6	6.94	33.15	−1	−6	3.74	40.41	+1	−6	58.86	43.97	+3	+3
25	7.94	23.38	−3	+4	6.87	33.44	0	−7	3.60	40.59	+2	−4	58.69	44.01	+2	+6
26	7.95	23.70	−3	+1	6.79	33.73	+1	−7	3.46	40.77	+3	−2	58.52	44.04	+1	+7
27	7.96	24.03	−3	−2	6.71	34.01	+2	−6	3.32	40.95	+3	+1	58.35	44.07	0	+8
28	7.96	24.36	−2	−5	6.63	34.29	+2	−3	3.18	41.12	+2	+4	58.17	44.09	−1	+7
29	7.96	24.68	−1	−7	6.55	34.57	+3	−1	3.03	41.29	+2	+7	58.00	44.11	−1	+4
30	7.96	25.01	0	−7	6.46	34.84	+2	+3	2.89	41.45	+1	+8	57.82	44.12	−2	+1
31	7.95	25.34	+1	−7	6.37	35.11	+2	+5	2.75	41.61	0	+8	57.65	44.13	−1	−3
32	7.94	25.66	+2	−5					2.60	41.76	−1	+6	57.47	44.13	−1	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 10″	7.309	+7.240	+82° 8′ 30″	7.314	+7.245	+82° 8′ 40″	7.317	+7.248
20	7.311	+7.243	40	7.317	+7.248	50	7.319	+7.250

$\alpha_{1940.0} = 16^{h}\ 52^{m}\ 2^{s}.49$ $\delta_{1940.0} = +82°\ 8'\ 20''.53$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	16^h51^m	+ 82° 8′	in 0.01 s	in 0.01 ″	16^h51^m	+ 82° 8′	in 0.01 s	in 0.01 ″	16^h51^m	+ 82° 8′	in 0.01 s	in 0.01 ″	16^h51^m	+ 82° 8′	in 0.01 s	in 0.01 ″
	s	″			s	″			s	″			s	″		
1	57.47	44.13	−1	−6	52.25	41.86	+2	−6	47.77	35.07	+1	+6	45.41	25.37	−1	+6
2	57.30	44.13	0	−8	52.09	41.71	+2	−3	47.66	34.79	0	+7	45.38	25.01	−3	+3
3	57.12	44.12	+1	−7	51.92	41.55	+2	0	47.55	34.50	−2	+7	45.35	24.66	−3	0
4	56.95	44.11	+2	−5	51.76	41.39	+1	+4	47.44	34.21	−3	+5	*)45.32	24.30	−3	−3
5	56.77	44.09	+2	−2	51.60	41.22	0	+6	47.33	33.92	−3	+2	45.29	23.95	−2	−6
6	56.59	44.07	+2	+2	51.43	41.05	−1	+7	47.22	33.62	−3	−2	45.26	23.59	−1	−7
7	56.41	44.04	+1	+5	51.27	40.87	−2	+6	47.11	33.32	−2	−4	45.24	23.23	0	−7
8	56.24	44.01	−1	+6	51.11	40.69	−3	+3	47.01	33.02	−1	−6	45.22	22.87	+1	−6
9	56.06	43.97	−2	+7	50.95	40.51	−3	0	46.91	32.71	0	−7	45.21	22.51	+2	−4
10	55.88	43.93	−3	+5	50.80	40.32	−3	−3	46.81	32.40	0	−7	45.20	22.15	+2	−1
11	55.70	43.88	−3	+2	50.64	40.13	−2	−5	46.72	32.09	+1	−5	45.19	21.79	+2	+2
12	55.53	43.83	−3	−1	50.49	39.93	−1	−7	46.63	31.78	+2	−3	45.18	21.43	+2	+4
13	55.35	43.77	−2	−3	50.34	39.73	0	−7	46.54	31.46	+2	0	45.18	21.07	+1	+6
14	55.18	43.71	−1	−6	50.19	39.52	+1	−6	46.45	31.14	+2	+2	45.18	20.72	0	+7
15	55.00	43.64	−1	−6	50.04	39.31	+2	−4	46.37	30.82	+2	+5	45.19	20.36	−1	+7
16	54.83	43.57	0	−7	49.89	39.09	+2	−2	46.29	30.49	+1	+7	45.20	20.00	−1	+5
17	54.65	43.49	+1	−5	49.74	38.87	+2	+1	46.21	30.16	0	+7	45.21	19.64	−2	+3
18	54.48	43.40	+2	−4	49.60	38.64	+2	+3	46.13	29.83	−1	+6	45.22	19.29	−2	−1
19	54.30	43.31	+2	−1	49.46	38.41	+2	+6	46.06	29.50	−1	+5	45.24	18.93	−1	−4
20	54.13	43.22	+3	+2	49.32	38.18	+1	+7	45.99	29.17	−2	+2	45.26	18.58	0	−6
21	53.96	43.12	+2	+4	49.18	37.94	0	+8	45.92	28.83	−1	−2	45.28	18.22	+1	−7
22	53.79	43.02	+1	+7	49.04	37.70	−1	+6	45.86	28.49	−1	−5	45.31	17.87	+2	−6
23	53.61	42.91	+1	+8	48.91	37.45	−1	+4	45.80	28.15	0	−7	45.34	17.52	+2	−3
24	53.44	42.80	0	+7	48.77	37.20	−1	0	45.74	27.81	+1	−7	45.37	17.17	+3	0
25	53.27	42.68	−1	+6	48.64	36.95	−1	−3	45.68	27.46	+2	−5	45.41	16.82	+2	+3
26	53.10	42.56	−2	+2	48.51	36.69	0	−6	45.63	27.12	+3	−2	45.45	16.47	+1	+6
27	52.93	42.43	−1	−1	48.38	36.43	+1	−7	45.58	26.77	+2	+1	45.49	16.12	0	+7
28	52.76	42.29	−1	−5	48.26	36.17	+2	−7	45.53	26.42	+1	+4	45.54	15.77	−1	+7
29	52.59	42.15	0	−7	48.13	35.90	+2	−4	45.49	26.07	0	+7	45.59	15.42	−2	+5
30	52.42	42.01	+1	−7	48.01	35.63	+2	−1	45.45	25.72	−1	+7	45.64	15.08	−3	+2
31	52.25	41.86	+2	−6	47.89	35.35	+2	+3	45.41	25.37	−1	+6	45.69	14.74	−3	−2
32					47.77	35.07	+1	+6					45.75	14.40	−2	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 10″	7.309	+7.240	+82° 8′ 30″	7.314	+7.245	+82° 8′ 40″	7.317	+7.248
20	7.311	+7.243	40	7.317	+7.248	50	7.319	+7.250

$\alpha_{1940.0} = 16^h\ 52^m\ 2^s.49$ $\delta_{1940.0} = +82°\ 8'\ 20''.53$

*) Tag der doppelten unteren Kulmination: Dez. .

Nh) δ Ursae minoris $4^m.44$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$17^h 51^m$	+86° 36′	in 0.01 s	in 0.01″	$17^h 51^m$	+86° 36′	in 0.01 s	in 0.01″
1	6.77	47.81	0	−8	10.78	38.19	+4	+2
2	6.79	47.47	+3	−6	11.01	37.93	+3	+5
3	6.82	47.14	+5	−3	11.25	37.67	0	+7
4	6.86	46.80	+5	0	11.49	37.42	−3	+7
5	6.91	46.46	+4	+4	11.74	37.17	−5	+6
6	6.96	46.12	+2	+6	12.00	36.93	−7	+4
7	7.02	45.79	−1	+7	12.26	36.69	−7	+1
8	7.09	45.46	−3	+7	12.52	36.45	−7	−2
9	7.16	45.13	−6	+5	12.79	36.22	−5	−4
10	7.24	44.80	−7	+3	13.07	36.00	−3	−6
11	7.33	44.47	−7	0	13.35	35.78	0	−7
12	7.43	44.14	−6	−3	13.63	35.56	+3	−6
13	7.53	43.82	−4	−5	13.92	35.35	+6	−5
14	7.64	43.50	−2	−6	14.22	35.15	+8	−3
15	7.76	43.18	+1	−7	14.52	34.95	+9	0
16	7.88	42.86	+5	−6	14.82	34.75	+9	+3
17	8.01	42.55	+7	−4	15.13	34.56	+7	+6
18	8.15	42.24	+9	−2	15.44	34.38	+4	+7
19	8.30	41.93	+9	+2	15.76	34.20	0	+7
20	8.45	41.62	+8	+5	16.08	34.03	−3	+5
21	8.61	41.32	+5	+7	16.40	33.86	−5	+2
22	8.77	41.02	+2	+7	16.73	33.70	−6	−2
23	8.94	40.72	−2	+6	17.06	33.55	−5	−5
24	9.12	40.42	−5	+4	17.39	33.40	−3	−7
25	9.31	40.13	−7	0	17.73	33.26	0	−8
26	9.50	39.84	−6	−4	18.07	33.12	+3	−6
27	9.70	39.55	−5	−7	18.41	32.99	+5	−3
28	9.90	39.27	−2	−8	18.76	32.87	+5	+1
29	10.11	38.99	+1	−7	19.11	32.75	+3	+4
30	10.33	38.72	+4	−5	19.46	32.64	+1	+7
31	10.55	38.45	+5	−1				
32	10.78	38.19	+4	+2				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$17^h 51^m$	+86° 36′	in 0.01 s	in 0.01″	$17^h 51^m$	+86° 36′	in 0.01 s	in 0.01″
1	19.46	32.64	+1	+7	30.71	32.31	−8	+3
2	19.81	32.53	−2	+8	31.06	32.40	−9	0
3	20.16	32.43	−5	+7	31.41	32.49	−8	−3
4	20.51	32.34	−7	+5	31.76	32.59	−5	−5
5	20.87	32.25	−8	+2	32.11	32.70	−3	−6
6	21.23	32.17	−8	−1	32.45	32.81	0	−7
7	21.59	32.09	−6	−3	32.79	32.93	+3	−6
8	21.95	32.02	−4	−5	33.12	33.06	+6	−4
9	22.31	31.96	−1	−6	33.45	33.19	+7	−2
10	22.68	31.91	+2	−7	33.78	33.33	+8	+1
11	23.04	31.86	+5	−6	34.11	33.47	+7	+4
12	23.40	31.82	+7	−4	34.44	33.62	+6	+6
13	23.77	31.78	+8	−1	34.76	33.77	+3	+7
14	24.14	31.75	+9	+2	35.08	33.93	0	+7
15	24.51	31.73	+7	+5	35.40	34.10	−3	+5
16	24.88	31.72	+5	+7	35.71	34.27	−5	+1
17	25.25	31.71	+2	+7	36.02	34.44	−5	−2
18	25.62	31.71	−1	+6	36.32	34.62	−4	−6
19	25.99	31.71	−4	+3	36.62	34.81	−1	−7
20	26.35	31.72	−5	0	36.92	35.00	+2	−8
21	26.72	31.73	−5	−4	37.21	35.19	+4	−6
22	27.09	31.75	−3	−7	37.50	35.38	+6	−3
23	27.46	31.78	0	−8	37.78	35.58	+6	+1
24	27.82	31.81	+2	−7	38.06	35.79	+4	+4
25	28.19	31.85	+5	−4	38.33	36.00	+1	+7
26	28.56	31.90	+5	−1	38.60	36.22	−2	+8
27	28.92	31.95	+4	+3	38.87	36.44	−6	+7
28	29.28	32.01	+2	+6	39.13	36.67	−8	+5
29	29.64	32.08	−1	+8	39.38	36.90	−9	+2
30	30.00	32.15	−4	+7	39.63	37.13	−8	−1
31	30.36	32.23	−7	+6	39.88	37.37	−7	−4
32	30.71	32.31	−8	+3				

δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 40″	16.917	+16.887
40	16.917	+16.887	50	16.931	+16.901

$\alpha_{1940.0} = 17^h\ 51^m\ 32^s.85$ $\delta_{1940.0} = +86°\ 36'\ 43''.10$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m_.44$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
		+	in			+	in	
	17^h51^m	86° 36′	$0^s_.01$	$0''_.01$	17^h51^m	86° 36′	$0^s_.01$	$0''_.01$
1	39.88	37.37	−7	−4	44.63	46.27	+4	−6
2	40.12	37.61	−4	−6	44.68	46.59	+6	−4
3	40.35	37.86	−1	−7	44.73	46.91	+7	−1
4	40.58	38.11	+2	−7	44.77	47.23	+8	+2
5	40.80	38.36	+5	−5	44.81	47.55	+6	+4
6	41.02	38.62	+7	−3	44.84	47.88	+4	+6
7	41.23	38.88	+7	0	44.86	48.20	+1	+7
8	41.44	39.14	+7	+3	44.87	48.52	−2	+6
9	41.64	39.41	+6	+5	44.88	48.84	−4	+4
10	41.84	39.68	+3	+7	44.88	49.17	−6	0
11	42.03	39.95	0	+7	44.88	49.49	−5	−3
12	42.21	40.23	−2	+5	44.87	49.82	−4	−6
13	42.39	40.51	−4	+3	44.85	50.14	−1	−7
14	42.56	40.80	−5	−1	44.83	50.46	+2	−7
15	42.73	41.09	−4	−4	44.80	50.78	+5	−5
16	42.89	41.38	−2	−7	44.76	51.11	+6	−2
17	43.04	41.67	+1	−8	44.72	51.43	+6	+1
18	43.19	41.96	+4	−7	44.67	51.75	+4	+5
19	43.33	42.26	+6	−4	{44.61 {44.55	52.07 52.39	+1 −2	+7} +8}
20	43.47	42.56	+6	−1	44.48	52.71	−5	+7
21	43.60	42.86	+5	+3	44.40	53.03	−7	+4
22	43.73	43.16	+3	+6	44.32	53.35	−8	+1
23	43.85	43.46	0	+7	44.23	53.67	−8	−2
24	43.96	43.77	−4	+7	44.14	53.98	−6	−4
25	44.07	44.08	−7	+6	44.04	54.30	−3	−6
26	44.17	44.39	−8	+3	43.93	54.61	0	−7
27	44.26	44.70	−8	0	43.82	54.92	+3	−6
28	44.35	45.01	−7	−3	43.70	55.24	+5	−5
29	44.43	45.33	−5	−5	43.58	55.55	+7	−2
30	44.50	45.64	−2	−7	43.45	55.86	+8	+1
31	44.57	45.95	+1	−7	43.31	56.17	+7	+4
32	44.63	46.27	+4	−6				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		+	in			+	in	
	17^h51^m	86° 36′	$0^s_.01$	$0''_.01$	17^h51^m	86° 37′	$0^s_.01$	$0''_.01$
1	43.31	56.17	+7	+4	36.31	4.51	−2	+6
2	43.17	56.47	+6	+6	36.01	4.73	−5	+3
3	43.02	56.77	+3	+7	35.70	4.94	−6	0
4	42.87	57.07	−1	+7	35.39	5.15	−6	−4
5	42.71	57.37	−4	+5	35.07	5.36	−4	−6
6	42.54	57.67	−6	+2	34.75	5.57	−1	−8
7	42.37	57.96	−6	−2	34.42	5.77	+2	−7
8	42.19	58.26	−5	−5	34.09	5.97	+4	−5
9	42.01	58.55	−3	−7	33.75	6.16	+5	−1
10	41.82	58.84	0	−7	33.41	6.35	+5	+2
11	41.62	59.13	+3	−6	33.07	6.54	+3	+5
12	41.42	59.41	+5	−3	32.73	6.72	0	+7
13	41.21	59.69	+6	0	32.38	6.90	−3	+7
14	41.00	59.97	+5	+4	32.03	7.07	−6	+6
15	40.78	60.25	+2	+6	31.67	7.24	−8	+3
16	40.56	60.52	−1	+7	31.31	7.41	−8	0
17	40.33	60.79	−4	+7	30.95	7.57	−7	−2
18	40.10	61.06	−6	+5	30.58	7.73	−5	−5
19	39.86	61.33	−8	+2	30.21	7.88	−3	−6
20	39.61	61.59	−8	−1	29.84	8.03	0	−7
21	39.36	61.85	−6	−3	29.46	8.17	+3	−6
22	39.11	62.11	−4	−6	29.08	8.31	+6	−4
23	38.85	62.37	−1	−7	28.70	8.44	+8	−2
24	38.59	62.62	+2	−7	28.32	8.57	+8	+1
25	38.32	62.87	+4	−6	27.93	8.70	+8	+4
26	38.04	63.11	+7	−4	27.54	8.82	+6	+6
27	37.76	63.35	+8	−1	27.15	8.94	+3	+8
28	37.48	63.59	+8	+2	26.76	9.05	0	+7
29	37.20	63.83	+7	+5	26.36	9.16	−3	+5
30	36.91	64.06	+5	+7	25.96	9.26	−5	+2
31	36.61	64.29	+1	+7	25.56	9.36	−5	−2
32	36.31	64.51	−2	+6	25.16	9.45	−4	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 50″	16.931	+16.901	+86° 37′ 0″	16.945	+16.915
40	16.917	+16.887	60	16.945	+16.915	10	16.958	+16.929

$\alpha_{1940.0} = 17^h\ 51^m\ 32^s_.85$ $\delta_{1940.0} = +86°\ 36'\ 43''_.10$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	17^h51^m	86° 37′	$0.^s01$	0.″01	17^h51^m	86° 37′	$0.^s01$	0.″01	17^h50^m	86° 36′	$0.^s01$	0.″01	17^h50^m	86° 36′	$0.^s01$	0.″01
1	25.16	9.45	−4	−5	12.60	10.02	+3	−7	60.42	65.97	+4	+5	52.12	58.13	−4	+7
2	24.76	9.54	−2	−7	12.18	9.96	+5	−4	60.08	65.77	+1	+7	51.93	57.82	−7	+5
3	24.35	9.63	+1	−8	11.76	9.90	+6	−1	59.74	65.56	−3	+8	51.75	57.51	−9	+2
4	23.95	9.71	+4	−6	11.34	9.83	+5	+3	59.40	65.34	−6	+7	51.58	57.19	−9	−1
5	23.54	9.78	+5	−3	10.93	9.76	+2	+6	59.06	65.12	−9	+4	51.41	56.88	−8	−4
6	23.13	9.85	+5	+1	10.51	9.68	−1	+8	58.73	64.90	−9	+1	51.25	56.56	−5	−6
7	22.72	9.92	+3	+4	10.10	9.60	−5	+7	58.41	64.68	−9	−2	51.09	56.24	−2	−7
8	22.31	9.98	+1	+7	9.68	9.51	−7	+5	58.09	64.45	−7	−5	50.94	55.92	+1	−7
9	21.89	10.03	−3	+7	9.27	9.42	−9	+3	57.77	64.21	−4	−6	50.80	55.59	+4	−5
10	21.47	10.08	−6	+6	8.86	9.32	−9	0	57.46	63.97	−1	−7	50.67	55.26	+6	−3
11	21.05	10.13	−8	+4	8.45	9.22	−8	−3	57.15	63.73	+2	−6	50.54	54.93	+7	0
12	20.64	10.17	−9	+2	8.04	9.12	−5	−5	56.85	63.48	+4	−4	50.42	54.60	+7	+2
13	20.22	10.21	−8	−1	7.63	9.01	−2	−6	56.55	63.23	+6	−2	50.31	54.26	+6	+5
14	19.80	10.24	−6	−4	7.23	8.89	+1	−6	56.26	62.97	+7	+1	50.20	53.93	+3	+7
15	19.38	10.27	−4	−6	6.83	8.77	+3	−5	55.97	62.71	+6	+3	50.10	53.59	+1	+7
16	18.96	10.29	−1	−7	6.43	8.64	+6	−3	55.69	62.45	+5	+5	50.00	53.26	−2	+6
17	18.53	10.31	+2	−6	6.03	8.51	+7	−1	55.41	62.19	+3	+7	49.91	52.92	−4	+4
18	18.11	10.32	+4	−5	5.64	8.37	+7	+2	55.14	61.92	0	+6	49.83	52.58	−5	0
19	17.69	10.32	+7	−3	5.25	8.23	+7	+4	54.87	61.65	−2	+5	*)49.76	52.24	−5	−3
20	17.26	10.32	+8	0	4.86	8.08	+5	+6	54.61	61.37	−4	+3	49.69	51.90	−3	−5
21	16.83	10.32	+8	+3	4.47	7.93	+2	+7	54.35	61.09	−5	−1	49.63	51.56	0	−7
22	16.41	10.31	+7	+5	4.09	7.77	0	+6	54.10	60.81	−4	−4	49.58	51.21	+3	−7
23	15.98	10.30	+5	+7	3.71	7.61	−3	+4	53.86	60.52	−2	−6	49.54	50.87	+5	−5
24	15.56	10.28	+2	+7	3.33	7.45	−4	+1	53.62	60.23	+1	−7	49.50	50.53	+7	−2
25	15.14	10.26	−1	+6	2.95	7.28	−4	−2	53.39	59.94	+4	−7	49.47	50.19	+7	+2
26	14.71	10.23	−4	+3	2.58	7.11	−3	−5	53.16	59.65	+6	−4	49.45	49.84	+5	+5
27	14.29	10.20	−5	0	2.21	6.93	0	−7	52.94	59.35	+7	0	49.44	49.50	+2	+7
28	13.87	10.16	−4	−4	1.85	6.75	+3	−7	52.73	59.05	+6	+3	49.43	49.15	−2	+7
29	13.44	10.12	−2	−6	1.49	6.56	+5	−6	52.52	58.75	+3	+6	49.43	48.81	−5	+6
30	13.02	10.07	0	−8	1.13	6.37	+7	−3	52.32	58.44	0	+8	49.44	48.46	−8	+4
31	12.60	10.02	+3	−7	0.77	6.17	+6	+1	52.12	58.13	−4	+7	49.45	48.12	−9	0
32					0.42	5.97	+4	+5					49.47	47.78	−8	−3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 40″	16.917	+16.887	+86° 37′ 0″	16.945	+16.915	+86° 37′ 10″	16.958	+16.929
50	16.931	+16.901	10	16.958	+16.929	20	16.972	+16.943

$\alpha_{1940.0} = 17^h\ 51^m\ 32.^s85$ $\delta_{1940.0} = +86°\ 36'\ 43.''10$

*) Tag der doppelten unteren Kulmination: Dez. 19.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	18^h32^m	+89° 2′	in 0.01 s	in 0.01″	18^h32^m	+89° 2′	in 0.01 s	in 0.01″	18^h33^m	+89° 2′	in 0.01 s	in 0.01″	18^h33^m	+89° 2′	in 0.01 s	in 0.01″
1	41.07	48.23	−7	−7	47.52	38.32	+19	+2	13.31	31.59	+8	+6	51.84	29.48	−30	+5
2	40.89	47.90	+6	−7	48.13	38.03	+14	+5	14.45	31.43	−3	+8	53.12	29.51	−33	+2
3	40.73	47.57	+16	−4	48.76	37.74	+5	+7	15.60	31.28	−15	+8	54.39	29.55	−31	−1
4	40.60	47.24	+21	−1	49.42	37.46	−6	+8	16.76	31.13	−24	+6	55.66	29.59	−24	−4
5	40.50	46.91	+20	+3	50.10	37.18	−16	+7	17.93	30.99	−30	+4	56.93	29.64	−15	−6
6	40.42	46.58	+13	+6	50.80	36.90	−24	+5	19.11	30.85	−30	+1	58.19	29.69	−3	−7
7	40.37	46.25	+3	+7	51.52	36.63	−28	+2	20.30	30.72	−27	−2	59.44	29.75	+8	−7
8	40.34	45.92	−8	+8	52.26	36.36	−27	0	21.50	30.60	−19	−5	60.69	29.82	+19	−5
9	40.34	45.59	−18	+6	53.03	36.10	−23	−3	22.71	30.48	−10	−6	61.93	29.89	+27	−3
10	40.37	45.26	−25	+4	53.81	35.84	−15	−5	23.92	30.37	+2	−7	63.17	29.97	+32	0
11	40.43	44.93	−28	+1	54.62	35.58	−4	−7	25.14	30.26	+14	−6	64.40	30.06	+32	+2
12	40.51	44.60	−26	−2	55.44	35.33	+8	−7	26.37	30.16	+24	−5	65.63	30.15	+27	+5
13	40.62	44.27	−20	−4	56.29	35.08	+20	−6	27.61	30.07	+32	−2	66.84	30.25	+17	+6
14	40.75	43.94	−11	−6	57.15	34.84	+30	−4	28.85	29.98	+35	0	68.05	30.35	+4	+6
15	40.91	43.61	+1	−7	58.03	34.60	+36	−1	30.10	29.90	+33	+3	69.25	30.46	−8	+5
16	41.10	43.28	+13	−7	58.94	34.36	+36	+2	31.36	29.83	+25	+6	70.44	30.57	−17	+2
17	41.31	42.96	+25	−6	59.86	34.13	+31	+4	32.62	29.76	+13	+7	71.61	30.69	−21	−1
18	41.55	42.64	+33	−3	60.79	33.90	+20	+6	33.89	29.70	0	+6	72.78	30.82	−18	−5
19	41.81	42.32	+37	0	61.75	33.68	+6	+7	35.16	29.64	−13	+4	73.94	30.95	−10	−7
20	42.10	42.00	+34	+3	62.72	33.46	−8	+6	36.44	29.59	−21	+1	75.09	31.08	+2	−8
21	42.42	41.68	+25	+6	63.71	33.25	−19	+3	37.72	29.55	−22	−3	76.23	31.22	+13	−7
22	42.76	41.37	+12	+7	64.72	33.04	−25	−1	39.00	29.51	−17	−6	77.35	31.37	+21	−4
23	43.13	41.05	−3	+7	65.74	32.84	−24	−4	40.28	29.48	−7	−8	78.47	31.52	+23	0
24	43.52	40.74	−17	+4	66.78	32.65	−16	−7	41.56	29.45	+5	−7	79.57	31.68	+18	+4
25	43.93	40.43	−26	+1	67.83	32.46	−5	−8	42.85	29.43	+15	−5	80.66	31.84	+9	+7
26	44.37	40.12	−28	−3	68.90	32.27	+7	−7	44.14	29.42	+20	−2	81.74	32.01	−4	+8
27	44.84	39.82	−23	−6	69.98	32.09	+16	−4	45.42	29.41	+20	+2	82.80	32.18	−17	+8
28	45.33	39.51	−13	−7	71.08	31.92	+19	0	46.71	29.41	+12	+5	83.85	32.36	−27	+6
29	45.84	39.21	0	−7	72.19	31.75	+16	+4	47.99	29.42	+1	+8	84.88	32.54	−33	+3
30	46.38	38.91	+11	−5	73.31	31.59	+8	+6	49.28	29.43	−11	+8	85.90	32.73	−33	0
31	46.94	38.61	+18	−2					50.56	29.45	−23	+7	86.91	32.92	−29	−3
32	47.52	38.32	+19	+2					51.84	29.48	−30	+5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 20″	59.617	+59.608	+89° 2′ 30″	59.790	+59.781	+89° 2′ 40″	59.964	+59.955
30	59.790	+59.781	40	59.964	+59.955	50	60.138	+60.130

$\alpha_{1940.0} = 18^h\ 34^m\ 9^s.77$ $\delta_{1940.0} = +89°\ 2'\ 39''.26$

Ni) λ Ursae minoris $6^m.55$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
		+	in			+	in	
	$18^h 34^m$	89° 2′	$0^s.01$	$0''.01$	$18^h 34^m$	89° 2′	$0^s.01$	$0''.01$
1	^{s}26.91	$''$32.92	−29	−3	^{s}49.24	$''$40.79	+11	−6
2	27.90	33.12	−20	−5	49.63	41.09	+21	−5
3	28.87	33.32	− 9	−7	50.01	41.39	+28	−2
4	29.83	33.52	+ 3	−7	50.36	41.69	+31	0
5	30.77	33.73	+15	−6	50.69	42.00	+28	+3
6	31.70	33.95	+24	−4	51.00	42.31	+21	+6
7	32.61	34.17	+30	−1	51.29	42.62	+10	+7
8	33.50	34.39	+30	+1	51.55	42.93	− 3	+6
9	34.38	34.62	+26	+4	51.79	43.24	−14	+4
10	35.24	34.85	+18	+6	52.01	43.56	−22	+1
11	36.08	35.08	+ 7	+7	52.20	43.87	−23	−2
12	36.90	35.32	− 5	+6	52.38	44.19	−19	−5
13	37.70	35.56	−15	+4	52.53	44.51	− 9	−7
14	38.49	35.81	−21	0	52.66	44.83	+ 4	−7
15	39.26	36.06	−20	−3	52.76	45.15	+15	−6
16	40.01	36.31	−13	−6	52.85	45.47	+23	−3
17	40.73	36.57	− 3	−8	52.91	45.79	+24	+1
18	41.44	36.83	+ 9	−7	52.95	46.11	+20	+4
19	42.13	37.10	+19	−5	52.96	46.43	+10	+6
20	42.80	37.37	+25	−2	52.96	46.75	− 2	+8
21	43.45	37.64	+23	+2	52.93	47.08	−15	+7
22	44.08	37.92	+16	+5	52.87	47.40	−25	+5
23	44.69	38.19	+ 4	+7	52.80	47.72	−31	+3
24	45.28	38.47	− 9	+8	52.70	48.04	−31	0
25	45.85	38.75	−23	+7	52.58	48.36	−26	−3
26	46.40	39.04	−30	+5	52.43	48.69	−18	−5
27	46.92	39.32	−33	+1	52.27	49.01	− 6	−7
28	47.43	39.61	−31	−2	52.08	49.33	+ 6	−7
29	47.91	39.90	−24	−4	51.87	49.65	+18	−6
30	48.37	40.19	−14	−6	{51.63 {51.37	49.97 50.30	+27 +32	−4} −1}
31	48.82	40.49	− 2	−7	51.09	50.62	+31	+2
32	49.24	40.79	+11	−6				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		+	in			+	in	
	$18^h 34^m$	89° 2′	$0^s.01$	$0''.01$	$18^h 33^m$	89° 2′	$0^s.01$	$0''.01$
1	^{s}51.09	$''$50.62	+31	+2	^{s}91.99	$''$59.87	− 3	+6
2	50.79	50.94	+26	+5	91.06	60.13	−15	+4
3	50.47	51.26	+16	+7	90.12	60.39	−23	+1
4	50.12	51.58	+ 2	+7	89.15	60.65	−25	−3
5	49.76	51.89	−11	+6	88.17	60.91	−20	−6
6	49.37	52.21	−20	+3	87.17	61.16	−10	−7
7	48.96	52.53	−25	−1	86.15	61.41	+ 2	−7
8	48.53	52.84	−23	−4	85.12	61.66	+13	−5
9	48.07	53.15	−16	−6	84.07	61.90	+20	−2
10	47.60	53.47	− 4	−7	83.01	62.14	+20	+1
11	47.10	53.78	+ 8	−7	81.93	62.37	+15	+5
12	46.58	54.09	+18	−4	80.84	62.60	+ 5	+7
13	46.04	54.40	+23	−1	79.73	62.83	− 7	+8
14	45.48	54.70	+21	+3	78.60	63.06	−19	+7
15	44.89	55.01	+14	+6	77.46	63.28	−27	+5
16	44.29	55.31	+ 2	+7	76.30	63.50	−30	+2
17	43.67	55.61	−10	+7	75.13	63.72	−29	−1
18	43.03	55.91	−21	+6	73.95	63.93	−23	−4
19	42.37	56.20	−28	+4	72.75	64.14	−15	−6
20	41.68	56.50	−30	+1	71.54	64.34	− 4	−7
21	40.98	56.79	−28	−2	70.32	64.54	+ 8	−6
22	40.26	57.08	−21	−5	69.08	64.74	+19	−5
23	39.52	57.37	−11	−6	67.83	64.93	+28	−3
24	38.76	57.66	+ 1	−7	66.56	65.12	+33	−1
25	37.98	57.94	+13	−6	65.29	65.30	+33	+2
26	37.18	58.23	+24	−5	64.00	65.48	+28	+5
27	36.36	58.51	+31	−2	62.70	65.66	+18	+7
28	35.52	58.79	+34	+1	61.39	65.83	+ 5	+7
29	34.67	59.06	+31	+4	60.06	66.00	− 8	+5
30	33.79	59.33	+23	+6	58.73	66.17	−18	+3
31	32.90	59.60	+10	+7	57.39	66.33	−23	−1
32	31.99	59.87	− 3	+6	56.04	66.48	−21	−4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 30″	59.790	+59.781	+89° 2′ 40″	59.964	+59.955	+89° 3′ 0″	60.314	+60.306
40	59.964	+59.955	50	60.138	+60.130	10	60.491	+60.483

$\alpha_{1940.0} = 18^h\ 34^m\ 9^s.77$ $\delta_{1940.0} = +89°\ 2'\ 39''.26$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^{m}.55$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$18^{h}\,33^{m}$	89° 3′	$0^{s}.01$	$0''.01$	$18^{h}\,32^{m}$	89° 3′	$0^{s}.01$	$0''.01$	$18^{h}\,31^{m}$	89° 3′	$0^{s}.01$	$0''.01$	$18^{h}\,31^{m}$	89° 2′	$0^{s}.01$	$0''.01$
1	$56^{s}.04$	$6''.48$	−21	−4	$72^{s}.01$	$9''.07$	+7	−7	$86^{s}.00$	$7''.13$	+20	+4	$50^{s}.75$	$60''.90$	−11	+8
2	54.67	6.63	−13	−7	70.48	9.08	+17	−5	84.62	6.99	+8	+7	49.85	60.63	−24	+7
3	53.30	6.78	−2	−8	68.96	9.09	+22	−2	83.26	6.84	−5	+8	48.96	60.36	−33	+4
4	51.91	6.92	+10	−7	67.43	9.09	+21	+2	81.90	6.69	−19	+8	48.10	60.08	−36	+1
5	50.52	7.06	+18	−4	65.90	9.09	+13	+5	80.55	6.53	−30	+6	47.26	59.80	−33	−2
6	49.12	7.19	+21	0	64.37	9.09	+1	+8	79.22	6.37	−36	+2	46.44	59.52	−25	−5
7	47.70	7.32	+17	+4	62.84	9.08	−13	+8	77.90	6.20	−35	−1	45.64	59.23	−13	−6
8	46.28	7.45	+7	+6	61.32	9.06	−25	+7	76.59	6.03	−29	−4	44.86	58.94	−1	−7
9	44.86	7.57	−5	+8	59.79	9.04	−33	+4	75.29	5.86	−20	−6	44.11	58.65	+11	−6
10	43.42	7.69	−17	+7	58.27	9.01	−35	+1	74.01	5.68	−8	−6	43.38	58.35	+20	−4
11	41.98	7.80	−27	+6	56.75	8.97	−32	−2	72.74	5.49	+4	−6	42.67	58.06	+26	−1
12	40.53	7.91	−32	+3	55.23	8.93	−24	−4	71.49	5.30	+15	−5	41.99	57.76	+28	+1
13	39.07	8.01	−32	0	53.72	8.89	−14	−6	70.25	5.11	+23	−3	41.33	57.45	+25	+4
14	37.61	8.11	−27	−3	52.21	8.84	−2	−6	69.02	4.91	+27	−1	40.69	57.15	+18	+6
15	36.14	8.21	−19	−5	50.70	8.79	+9	−6	67.81	4.71	+27	+2	40.08	56.84	+8	+7
16	34.66	8.30	−8	−6	49.19	8.73	+19	−4	66.61	4.50	+24	+4	39.49	56.53	−3	+6
17	33.18	8.38	+3	−6	47.69	8.67	+26	−2	65.43	4.29	+16	+6	38.93	56.22	−13	+4
18	31.69	8.46	+14	−6	46.20	8.60	+30	0	64.27	4.07	+6	+6	38.39	55.91	−20	+1
19	30.20	8.54	+24	−4	44.71	8.53	+29	+3	63.12	3.85	−5	+6	37.87	55.59	−21	−2
20	28.70	8.61	+30	−1	43.23	8.45	+24	+5	61.99	3.63	−14	+3	37.38	55.27	−16	−5
21	27.20	8.68	+32	+1	41.75	8.37	+15	+7	60.87	3.40	−19	0	36.91	54.95	−6	−7
22	25.69	8.74	+30	+4	40.28	8.28	+3	+6	59.78	3.17	−17	−3	36.47	54.63	+6	−7
23	24.18	8.80	+22	+6	38.82	8.19	−7	+5	58.70	2.93	−11	−6	36.05	54.31	+18	−6
24	22.67	8.85	+12	+7	37.36	8.09	−15	+2	57.64	2.69	0	−8	35.66	53.98	+25	−3
25	21.15	8.90	−1	+6	35.91	7.99	−19	−1	56.60	2.45	+12	−7	35.29	53.65	+27	0
26	19.63	8.94	−12	+4	34.47	7.88	−15	−5	55.57	2.20	+22	−5	34.95	53.33	+22	+4
27	18.11	8.98	−19	0	33.03	7.77	−7	−7	54.57	1.95	+27	−2	34.64	53.00	+11	+7
28	16.59	9.01	−20	−3	31.61	7.65	+5	−8	53.58	1.69	+25	+2	34.35	52.66	−3	+8
29	15.07	9.04	−14	−6	30.19	7.53	+16	−7	52.62	1.43	+17	+5	*)34.09	52.33	−16	+7
30	13.54	9.06	−4	−8	28.78	7.40	+24	−4	51.68	1.17	+4	+8	33.86	52.00	−27	+5
31	12.01	9.07	+7	−7	27.38	7.27	+25	0	50.75	0.90	−11	+8	33.65	51.67	−33	+2
32					26.00	7.13	+20	+4					33.47	51.33	−33	−1

δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 50″	60.138	+60.130	+89° 3′ 0″	60.314	+60.306
60	60.314	+60.306	10	60.491	+60.483

$\alpha_{1940.0} = 18^{h}\ 34^{m}\ 9^{s}.77$ $\delta_{1940.0} = +89°\ 2'\ 39''.26$

*) Tag der doppelten unteren Kulmination: Dez. 29.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nk) 76 Draconis $5^{m}.69$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	20^h46^m	+82° 18′	in $0^s.01$	in $0''.01$	20^h46^m	+82° 18′	in $0^s.01$	in $0''.01$	20^h46^m	+82° 18′	in $0^s.01$	in $0''.01$	20^h46^m	+82° 18′	in $0^s.01$	in $0''.01$
1	56.73	58.31	−3	−6	54.96	48.80	+2	−1	55.99	39.48	+2	+5	59.58	32.46	−1	+8
2	56.63	58.05	−1	−6	*)54.95	48.46	+2	+2	56.07	39.19	+2	+7	59.73	32.32	−2	+6
3	56.53	57.79	0	−6	54.95	48.13	+2	+5	56.15	38.90	+1	+9	59.88	32.18	−2	+3
4	56.44	57.52	+1	−3	54.95	47.80	+2	+8	56.24	38.61	0	+9	60.03	32.05	−3	0
5	56.35	57.24	+2	0	54.95	47.47	+1	+8	56.33	38.33	−1	+7	60.18	31.92	−3	−3
6	56.26	56.96	+3	+3	54.95	47.14	0	+8	56.42	38.05	−2	+4	60.33	31.80	−2	−5
7	56.17	56.68	+2	+6	54.96	46.80	−1	+6	56.51	37.78	−3	+2	60.48	31.69	−1	−7
8	56.09	56.39	+1	+8	54.97	46.47	−2	+3	56.61	37.51	−3	−1	60.64	31.58	0	−7
9	56.01	56.10	+1	+8	54.99	46.14	−2	0	56.71	37.24	−2	−4	60.79	31.48	+1	−6
10	55.93	55.81	−1	+7	55.01	45.80	−3	−3	56.81	36.98	−2	−6	60.95	31.39	+2	−5
11	55.85	55.51	−1	+5	55.03	45.47	−2	−5	56.92	36.72	−1	−7	61.10	31.30	+3	−2
12	55.78	55.21	−2	+2	55.05	45.14	−1	−7	57.03	36.47	0	−8	61.26	31.21	+3	+1
13	55.71	54.91	−3	−1	55.08	44.81	0	−8	57.14	36.22	+2	−6	61.42	31.13	+3	+3
14	55.64	54.61	−3	−4	55.11	44.48	+1	−8	57.25	35.98	+2	−4	61.58	31.06	+2	+5
15	55.58	54.31	−2	−6	55.14	44.15	+2	−6	57.36	35.74	+3	−2	61.74	31.00	+1	+5
16	55.52	54.00	−1	−8	55.18	43.82	+3	−3	57.47	35.51	+3	+1	61.90	30.94	−1	+4
17	55.46	53.69	0	−8	55.22	43.50	+3	0	57.59	35.28	+3	+4	62.06	30.89	−2	+2
18	55.41	53.37	+1	−7	55.26	43.18	+3	+3	57.72	35.05	+2	+5	62.22	30.84	−3	−2
19	55.36	53.06	+2	−5	55.31	42.86	+2	+5	57.84	34.83	0	+5	62.39	30.80	−3	−5
20	55.31	52.74	+3	−2	55.35	42.54	+1	+6	57.96	34.62	−1	+3	62.55	30.77	−2	−7
21	55.26	52.42	+3	+2	55.40	42.22	−1	+5	58.09	34.41	−2	0	62.71	30.74	−1	−7
22	55.22	52.10	+3	+4	55.45	41.90	−2	+3	58.22	34.20	−3	−3	62.88	30.72	0	−6
23	55.18	51.78	+2	+6	55.51	41.59	−3	−1	58.34	34.00	−3	−6	63.04	30.70	+2	−3
24	55.14	51.45	0	+6	55.57	41.28	−3	−4	58.47	33.81	−2	−7	63.20	30.69	+2	+1
25	55.11	51.12	−1	+4	55.63	40.97	−2	−6	58.61	33.62	0	−6	63.37	30.69	+2	+5
26	55.08	50.79	−3	+2	55.70	40.67	−1	−6	58.74	33.44	+1	−4	63.53	30.69	+2	+8
27	55.05	50.46	−3	−2	55.77	40.37	0	−5	58.88	33.26	+2	−1	63.70	30.70	+1	+9
28	55.03	50.13	−3	−5	55.84	40.07	+1	−2	59.02	33.09	+2	+3	63.86	30.72	0	+9
29	55.01	49.80	−2	−6	55.92	39.77	+2	+1	59.16	32.92	+2	+6	64.02	30.75	−1	+7
30	54.99	49.46	−1	−6	55.99	39.48	+2	+5	59.30	32.76	+1	+9	64.19	30.78	−2	+4
31	54.97	49.13	+1	−4					59.44	32.61	0	+9	64.35	30.81	−3	+1
32	54.96	48.80	+2	−1					59.58	32.46	−1	+8				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 18′ 30″	7.471	+7.404	+82° 18′ 40″	7.474	+7.407	+82° 18′ 50″	7.477	+7.410
40	7.474	+7.407	50	7.477	+7.410	60	7.480	+7.412

$\alpha_{1940.0} = 20^h\ 47^m\ 3^s.07$ $\delta_{1940.0} = +82°\ 18'\ 38''.84$

*) Tag der doppelten unteren Kulmination: Febr. 2.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nk) 76 Draconis $5^{m}.69$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$20^{h}47^{m}$	82° 18′	$0^{s}.01$	$0''.01$	$20^{h}47^{m}$	82° 18′	$0^{s}.01$	$0''.01$	$20^{h}47^{m}$	82° 18′	$0^{s}.01$	$0''.01$	$20^{h}47^{m}$	82° 18′	$0^{s}.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	4.35	30.81	−3	+1	9.04	34.79	−1	−7	12.10	42.95	+2	−5	12.94	53.66	+3	+5
2	4.51	30.85	−3	−2	9.17	35.00	0	−7	12.17	43.27	+3	−2	12.93	54.02	+2	+6
3	4.68	30.90	−2	−4	9.30	35.22	+1	−6	12.23	43.59	+3	+1	12.91 12.89	54.38 54.73	0 −1	+6 +4
4	4.84	30.95	−2	−6	9.43	35.44	+2	−4	12.29	43.91	+3	+4	12.87	55.09	−3	+1
5	5.01	31.01	−1	−7	9.56	35.67	+3	−1	12.35	44.24	+2	+6	12.84	55.45	−3	−2
6	5.17	31.08	0	−7	9.68	35.90	+3	+2	12.41	44.58	+1	+6	12.81	55.80	−3	−5
7	5.33	31.15	+2	−5	9.80	36.14	+3	+4	12.46	44.91	−1	+5	12.78	56.16	−2	−6
8	5.49	31.23	+3	−3	9.92	36.38	+1	+6	12.51	45.24	−2	+3	12.75	56.52	0	−6
9	5.65	31.31	+3	0	10.04	36.63	0	+6	12.56	45.58	−3	0	12.71	56.87	+1	−4
10	5.81	31.40	+3	+3	10.15	36.88	−1	+4	12.60	45.92	−3	−3	12.67	57.23	+2	−1
11	5.96	31.50	+2	+5	10.27	37.13	−2	+2	12.64	46.25	−2	−6	12.63	57.58	+2	+2
12	6.12	31.60	+1	+6	10.38	37.39	−3	−2	12.68	46.59	−1	−7	12.59	57.93	+2	+5
13	6.28	31.71	0	+5	10.49	37.65	−3	−5	12.72	46.94	0	−6	12.54	58.28	+2	+8
14	6.43	31.82	−1	+3	10.60	37.91	−2	−7	12.76	47.29	+1	−3	12.49	58.63	+1	+8
15	6.58	31.94	−2	0	10.71	38.18	−1	−7	12.79	47.63	+2	0	12.44	58.98	−1	+7
16	6.74	32.06	−3	−3	10.81	38.45	+1	−6	12.82	47.98	+3	+3	12.38	59.33	−1	+6
17	6.89	32.19	−2	−6	10.91	38.73	+2	−3	12.85	48.33	+2	+6	12.33	59.68	−2	+3
18	7.04	32.33	−1	−7	11.01	39.01	+3	+1	12.88	48.68	+1	+8	12.27	60.02	−3	0
19	7.19	32.47	0	−7	11.11	39.29	+3	+4	12.90	49.03	0	+8	12.21	60.36	−3	−3
20	7.34	32.62	+1	−5	11.20	39.58	+2	+7	12.92	49.39	−1	+7	12.14	60.71	−2	−5
21	7.49	32.77	+2	−1	11.30	39.87	+1	+8	12.94	49.74	−2	+5	12.07	61.05	−1	−7
22	7.64	32.93	+3	+3	11.39	40.16	0	+8	12.95	50.09	−3	+2	12.00	61.39	0	−7
23	7.78	33.09	+2	+6	11.48	40.46	−1	+6	12.96	50.45	−3	−1	11.93	61.73	+1	−7
24	7.93	33.26	+2	+8	11.57	40.76	−2	+4	12.97	50.81	−3	−4	11.86	62.06	+2	−5
25	8.08	33.43	0	+9	11.65	41.06	−3	+1	12.98	51.16	−2	−6	11.78	62.40	+3	−3
26	8.22	33.61	−1	+8	11.73	41.37	−3	−2	12.98	51.52	−1	−7	11.70	62.73	+3	0
27	8.36	33.79	−2	+6	11.81	41.68	−2	−5	12.98	51.87	0	−7	11.62	63.06	+3	+3
28	8.50	33.98	−3	+3	11.89	41.99	−1	−7	12.98	52.23	+2	−6	11.54	63.39	+2	+5
29	8.64	34.18	−3	−1	11.96	42.31	0	−7	12.97	52.59	+2	−4	11.45	63.71	+1	+6
30	8.78	34.38	−3	−3	12.03	42.63	+1	−7	12.96	52.95	+3	−1	11.36	64.04	−1	+5
31	8.91	34.58	−2	−6	12.10	42.95	+2	−5	12.95	53.30	+3	+2	11.27	64.36	−2	+2
32	9.04	34.79	−1	−7					12.94	53.66	+3	+5	11.18	64.68	−3	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 18′ 30″	7.471	+7.404	+82° 18′ 40″	7.474	+7.407	+82° 19′ 0″	7.480	+7.412
40	7.474	+7.407	50	7.477	+7.410	10	7.482	+7.415

$\alpha_{1940.0} = 20^{h}\ 47^{m}\ 3^{s}.07$ $\delta_{1940.0} = +82^{\circ}\ 18'\ 38''.84$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m\!.69$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	20^h47^m	$+82°\ 19'$	in $0^s\!.01$	in $0''\!.01$	20^h47^m	$+82°\ 19'$	in $0^s\!.01$	in $0''\!.01$	20^h46^m	$+82°\ 19'$	in $0^s\!.01$	in $0''\!.01$	20^h46^m	$+82°\ 19'$	in $0^s\!.01$	in $0''\!.01$
1	11.18	4.68	−3	−1	7.47	12.85	−2	−7	62.36	17.32	+3	+1	57.25	16.62	+1	+8
2	11.08	5.00	−3	−4	7.32	13.07	0	−7	62.18	17.38	+2	+5	57.09	16.51	0	+9
3	10.98	5.31	−2	−6	7.17	13.28	+1	−5	62.01	17.43	+2	+8	56.94	16.39	−1	+8
4	10.88	5.62	−1	−7	7.02	13.48	+2	−1	61.83	17.48	+1	+9	56.78	16.26	−2	+5
5	10.78	5.93	0	−5	6.86	13.68	+2	+3	61.66	17.53	−1	+9	56.63	16.13	−3	+2
6	10.68	6.24	+1	−3	6.71	13.88	+2	+7	61.48	17.57	−2	+7	56.47	15.99	−3	−1
7	10.58	6.55	+2	+1	6.56	14.08	+1	+9	61.31	17.60	−3	+4	56.32	15.85	−3	−4
8	10.47	6.85	+2	+5	6.40	14.27	0	+9	61.13	17.62	−3	+1	56.17	15.70	−2	−6
9	10.36	7.15	+2	+7	6.24	14.45	−1	+8	60.96	17.64	−3	−2	56.02	15.55	−1	−6
10	10.25	7.44	+1	+9	6.08	14.63	−2	+6	60.79	17.66	−2	−4	55.87	15.39	0	−6
11	10.14	7.73	0	+9	5.92	14.81	−3	+3	60.61	17.67	−1	−6	55.72	15.23	+1	−5
12	10.02	8.02	−1	+7	5.76	14.98	−3	−1	60.44	17.67	0	−6	55.58	15.06	+2	−3
13	9.90	8.31	−2	+4	5.60	15.14	−3	−3	60.26	17.67	+1	−6	55.44	14.88	+3	0
14	9.78	8.59	−3	+1	5.43	15.30	−2	−5	60.09	17.66	+2	−4	55.30	14.70	+3	+3
15	9.66	8.87	−3	−2	5.27	15.46	−1	−6	59.92	17.65	+3	−2	55.16	14.52	+2	+5
16	9.53	9.15	−2	−4	5.10	15.61	0	−6	59.75	17.63	+3	+1	55.03	14.33	+1	+6
17	9.41	9.42	−2	−6	4.94	15.75	+1	−5	59.57	17.60	+3	+3	54.89	14.13	0	+5
18	9.28	9.69	0	−7	4.77	15.89	+2	−4	59.40	17.57	+2	+5	54.76	13.93	−1	+4
19	9.15	9.95	0	−7	4.60	16.03	+3	−1	59.23	17.53	+1	+5	54.63	13.73	−2	+1
20	9.02	10.21	+2	−5	4.43	16.16	+3	+1	59.06	17.49	0	+5	54.50	13.52	−2	−2
21	8.89	10.47	+3	−3	4.26	16.28	+3	+4	58.89	17.44	−1	+2	54.37	13.30	−2	−5
22	8.76	10.72	+3	−1	4.09	16.40	+2	+5	58.72	17.38	−2	0	54.25	13.08	−2	−7
23	8.62	10.97	+3	+2	3.92	16.52	+1	+5	58.55	17.32	−2	−4	54.13	12.85	0	−7
24	8.48	11.22	+3	+5	3.75	16.63	−1	+4	58.39	17.25	−2	−7	54.01	12.62	+1	−6
25	8.34	11.46	+2	+6	3.57	16.73	−2	+1	58.22	17.18	−1	−8	53.89	12.39	+2	−3
26	8.20	11.70	0	+5	3.40	16.83	−2	−2	58.06	17.10	0	−7	53.78	12.15	+3	0
27	8.06	11.94	−1	+3	3.23	16.93	−3	−5	57.89	17.02	+1	−5	53.66	11.91	+3	+4
28	7.92	12.17	−2	0	3.05	17.02	−2	−7	57.73	16.93	+2	−1	53.55	11.66	+2	+7
29	7.77	12.40	−3	−3	2.88	17.10	−1	−8	57.57	16.83	+3	+3	53.44	11.41	+1	+9
30	7.62	12.63	−2	−6	2.71	17.18	+1	−6	57.41	16.73	+2	+6	53.33	11.15	−1	+8
31	7.47	12.85	−2	−7	2.53	17.25	+2	−3	57.25	16.62	+1	+8	53.23	10.89	−2	+6
32					2.36	17.32	+3	+1					53.13	10.62	−3	+3

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 19′ 0″	7.480	+7.412	+82° 19′ 10″	7.482	+7.415
10	7.482	+7.415	20	7.485	+7.418

$\alpha_{1940.0} = 20^h\ 47^m\ 3^s\!.07$ $\delta_{1940.0} = +82°\ 18'\ 38''\!.84$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sa) 4 G. Octantis $5^{m}.63$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	$1^h 40^m$	— 85° 4′	$0^s.01$	$0''.01$	$1^h 40^m$	— 85° 4′	$0^s.01$	$0''.01$	$1^h 40^m$	— 85° 4′	$0^s.01$	$0''.01$	$1^h 40^m$	— 85° 4′	$0^s.01$	$0''.01$
1	37.28	45.00	+5	+3	29.14	42.99	−2	−5	22.70	36.36	−5	−3	18.49	25.99	−3	+7
2	37.02	45.03	+4	−1	28.89	42.83	−4	−5	22.51	36.07	−6	0	18.41	25.63	−1	+8
3	36.75	45.05	+2	−4	28.64	42.67	−5	−3	22.33	35.77	−6	+2	18.33	25.26	+1	+8
4	36.49	45.07	0	−5	28.39	42.50	−6	0	22.15	35.47	−4	+5	18.26	24.89	+3	+7
5	36.22	45.08	−2	−6	28.15	42.32	−5	+3	21.97	35.17	−2	+7	18.19	24.52	+4	+5
6	35.96	45.08	−4	−4	27.90	42.14	−4	+5	21.80	34.86	0	+8	18.12	24.15	+5	+2
7	35.69	45.07	−6	−2	27.66	41.96	−2	+7	21.63	34.55	+2	+7	18.06	23.78	+5	−1
8	35.42	45.06	−6	+1	27.42	41.76	+1	+7	21.46	34.23	+3	+6	18.01	23.40	+4	−4
9	35.16	45.05	−5	+4	27.18	41.57	+2	+6	21.30	33.92	+5	+3	17.95	23.03	+2	−7
10	34.89	45.03	−3	+6	26.95	41.37	+4	+5	21.14	33.60	+5	0	17.91	22.66	0	−8
11	34.62	45.00	−1	+7	26.71	41.16	+5	+2	20.98	33.28	+5	−3	17.86	22.29	−2	−9
12	34.36	44.97	+1	+7	26.48	40.95	+5	−1	20.83	32.96	+3	−6	17.82	21.91	−4	−8
13	34.09	44.93	+3	+6	26.25	40.73	+5	−4	20.68	32.63	+2	−8	17.79	21.54	−5	−5
14	33.83	44.88	+5	+4	26.02	40.51	+3	−7	20.53	32.30	0	−9	17.76	21.17	−5	−2
15	33.56	44.83	+5	+1	25.79	40.28	+1	−9	20.39	31.97	−3	−9	17.73	20.79	−3	+2
16	33.30	44.77	+5	−2	25.57	40.05	−1	−10	20.25	31.63	−4	−7	17.70	20.42	−1	+5
17	33.03	44.70	+4	−6	25.35	39.81	−3	−9	20.11	31.29	−5	−4	*)17.68	20.04	+2	+6
18	32.77	44.63	+2	−8	25.13	39.57	−5	−6	19.98	30.95	−4	0	17.67	19.67	+4	+6
19	32.51	44.55	0	−9	24.91	39.33	−5	−2	19.85	30.61	−2	+3	17.65	19.30	+5	+4
20	32.24	44.46	−3	−9	24.70	39.08	−4	+2	19.72	30.26	0	+6	17.65	18.93	+6	+1
21	31.98	44.37	−4	−7	24.48	38.83	−2	+5	19.60	29.92	+3	+7	17.64	18.55	+4	−2
22	31.72	44.28	−5	−4	24.28	38.57	+1	+7	19.48	29.57	+5	+6	17.64	18.18	+2	−5
23	31.45	44.18	−5	0	24.07	38.31	+3	+7	19.36	29.22	+6	+3	17.65	17.81	−1	−6
24	31.19	44.07	−3	+4	23.87	38.04	+5	+5	19.25	28.87	+5	0	17.66	17.44	−3	−5
25	30.93	43.95	0	+7	23.66	37.77	+5	+2	19.14	28.51	+3	−3	17.67	17.07	−5	−3
26	30.67	43.83	+2	+8	23.47	37.49	+4	−1	19.04	28.16	+1	−5	17.68	16.70	−6	0
27	30.41	43.70	+4	+7	23.27	37.22	+2	−4	18.94	27.80	−2	−5	17.70	16.33	−6	+3
28	30.16	43.57	+5	+4	23.08	36.93	−1	−5	18.84	27.44	−4	−4	17.72	15.96	−4	+6
29	29.90	43.43	+5	+1	22.89	36.65	−3	−5	18.75	27.08	−6	−2	17.75	15.59	−2	+8
30	29.65	43.29	+3	−2	22.70	36.36	−5	−3	18.66	26.72	−6	+1	17.78	15.23	0	+8
31	29.39	43.14	+1	−5					18.57	26.35	−5	+4	17.82	14.87	+2	+8
32	29.14	42.99	−2	−5					18.49	25.99	−3	+7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 4′ 10″	11.635	−11.592	−85° 4′ 30″	11.648	−11.605	−85° 4′ 40″	11.655	−11.612
20	11.641	−11.598	40	11.655	−11.612	50	11.661	−11.618

$\alpha_{1940.0} = 1^h\ 40^m\ 39^s.77$ $\delta_{1940.0} = -85^\circ\ 4'\ 24''.43$

*) Tag der doppelten unteren Kulmination: April 17.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sa) 4 G. Octantis $5^m.63$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^h\ 40^m$	$-85°\ 4'$	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	$-85°\ 3'$	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	$-85°\ 3'$	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	$-85°\ 3'$	in $0^s.01$	in $0''.01$
1	$17^s.82$	$14''.87$	+2	+8	$20^s.79$	$64''.60$	+5	−2	$26^s.53$	$57''.90$	0	−8	$33^s.97$	$55''.93$	−5	−4
2	17.86	14.50	+4	+6	20.94	64.31	+3	−5	26.76	57.75	−2	−8	34.21	55.96	−4	0
3	17.90	14.14	+5	+3	21.10	64.03	+2	−7	26.99	57.61	−4	−7	34.46	56.00	−2	+4
4	17.95	13.78	+5	0	21.25	63.75	0	−8	27.22	57.47	−5	−5	34.70	56.04	0	+6
5	18.00	13.42	+4	−3	21.42	63.47	−2	−8	27.45	57.33	−5	−2	34.94	56.09	+2	+7
6	18.06	13.06	+3	−6	21.58	63.20	−4	−7	27.68	57.21	−4	+2	35.18	56.14	+4	+6
7	18.12	12.71	+1	−8	21.75	62.94	−5	−4	27.91	57.09	−2	+5	35.42	56.20	+5	+3
8	18.18	12.36	−1	−8	21.92	62.67	−4	0	28.14	56.97	+1	+7	35.65	56.27	+5	0
9	18.25	12.01	−3	−8	22.09	62.42	−3	+3	28.38	56.86	+3	+7	35.89	56.34	+3	−3
10	18.32	11.66	−4	−6	22.26	62.16	−1	+6	28.62	56.76	+5	+5	36.13	56.42	+1	−5
11	18.39	11.31	−5	−3	22.44	61.91	+2	+7	28.85	56.66	+6	+2	36.36	56.50	−2	−6
12	18.47	10.96	−4	+1	22.62	61.67	+4	+6	29.09	56.57	+5	−1	36.59	56.59	−4	−5
13	18.55	10.62	−2	+4	22.80	61.43	+5	+3	29.33	56.48	+3	−4	36.83	56.68	−5	−2
14	18.64	10.28	0	+6	22.99	61.20	+5	0	29.57	56.40	0	−6	37.06	56.78	−6	+1
15	18.73	9.94	+3	+6	23.18	60.96	+4	−3	29.82	56.33	−2	−6	37.29	56.89	−5	+4
16	18.82	9.60	+5	+5	23.37	60.74	+2	−5	30.06	56.26	−4	−4	37.51	57.00	−3	+6
17	18.92	9.27	+6	+2	23.57	60.52	−1	−6	30.30	56.19	−6	−2	37.74	57.11	−1	+7
18	19.02	8.94	+5	−1	23.76	60.30	−3	−6	30.54	56.13	−5	+1	37.96	57.24	+1	+8
19	19.12	8.61	+3	−4	23.96	60.08	−5	−3	30.79	56.08	−4	+4	38.18	57.36	+3	+7
20	19.23	8.28	+1	−6	24.17	59.88	−6	0	31.03	56.03	−2	+7	38.40	57.50	+4	+5
21	19.34	7.96	−2	−6	24.37	59.67	−5	+3	31.28	55.99	0	+8	38.62	57.64	+5	+2
22	19.45	7.64	−4	−5	24.58	59.47	−4	+6	31.52	55.96	+2	+7	38.84	57.79	+5	−1
23	19.57	7.32	−6	−2	24.79	59.28	−2	+7	31.77	55.93	+3	+6	39.05	57.94	+4	−4
24	19.69	7.00	−6	+1	25.00	59.09	0	+8	32.01	55.91	+5	+4	39.26	58.09	+2	−7
25	19.82	6.69	−5	+4	25.21	58.90	+2	+7	32.26	55.89	+5	+1	39.47	58.25	0	−9
26	19.94	6.38	−3	+7	25.43	58.72	+4	+5	32.50	55.88	+5	−2	39.68	58.42	−2	−9
27	20.08	6.07	−1	+8	25.65	58.55	+5	+2	32.75	55.87	+3	−6	39.88	58.59	−4	−8
28	20.21	5.77	+1	+8	25.87	58.38	+5	−1	32.99	55.87	+2	−8	40.08	58.77	−5	−5
29	20.35	5.47	+3	+7	26.09	58.21	+4	−4	33.24	55.88	−1	−9	40.28	58.95	−5	−2
30	20.49	5.18	+5	+4	26.31	58.05	+2	−6	33.48	55.89	−3	−8	40.48	59.14	−4	+2
31	20.64	4.88	+5	+1	26.53	57.90	0	−8	33.73	55.91	−4	−7	40.67	59.33	−1	+5
32	20.79	4.60	+5	−2					33.97	55.93	−5	−4	40.86	59.53	+1	+6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 3′ 50″	11.622	−11.579	−85° 4′ 0″	11.628	−11.585	−85° 4′ 10″	11.635	−11.592
60	11.628	−11.585	10	11.635	−11.592	20	11.641	−11.598

$\alpha_{1940.0} = 1^h\ 40^m\ 39^s.77$ $\delta_{1940.0} = -85°\ 4'\ 24''.43$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sa) 4 G. Octantis $5^m.63$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$1^h\ 40^m$	— $85°\ 3'$	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	— $85°\ 4'$	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	— $85°\ 4'$	in $0^s.01$	in $0''.01$	$1^h\ 40^m$	— $85°\ 4'$	in $0^s.01$	in $0''.01$
1	40.86	59.53	+1	+6	44.92	7.33	+6	+2	44.88	17.58	−3	−6	40.64	25.59	−6	+2
2	41.05	59.73	+4	+6	44.99	7.63	+5	−1	44.80	17.89	−5	−3	40.44	25.80	−5	+5
3	41.23	59.94	+5	+4	45.05	7.95	+3	−4	44.72	18.20	−6	0	40.24	25.99	−3	+8
4	41.42	60.15	+6	+1	45.12	8.26	+1	−6	44.63	18.51	−5	+4	40.03	26.19	0	+9
5	41.59	60.37	+5	−2	45.18	8.57	−2	−6	44.53	18.82	−4	+7	39.83	26.38	+2	+9
6	41.77	60.59	+2	−4	45.23	8.89	−4	−4	44.44	19.12	−2	+9	39.62	26.56	+4	+7
7	41.94	60.81	−1	−6	45.28	9.21	−6	−1	44.34	19.42	+1	+9	39.41	26.74	+5	+4
8	42.11	61.04	−3	−5	45.32	9.52	−6	+2	44.23	19.72	+3	+8	39.19	26.91	+5	+1
9	42.27	61.27	−5	−3	45.36	9.85	−5	+5	44.12	20.02	+4	+6	38.97	27.08	+4	−2
10	42.43	61.51	−6	0	45.40	10.17	−3	+8	44.00	20.31	+5	+3	38.75	27.24	+3	−5
11	42.59	61.75	−5	+3	45.43	10.49	−1	+9	43.88	20.60	+5	0	38.53	27.39	+1	−7
12	42.74	62.00	−4	+6	45.46	10.82	+1	+8	43.76	20.88	+4	−3	38.30	27.54	−1	−8
13	42.89	62.25	−2	+8	45.48	11.14	+3	+7	43.63	21.16	+2	−6	38.07	27.69	−3	−7
14	43.04	62.50	0	+8	45.50	11.47	+4	+4	43.50	21.44	0	−7	37.84	27.83	−4	−6
15	43.18	62.76	+2	+7	45.51	11.79	+5	+1	43.36	21.72	−2	−8	37.61	27.96	−5	−3
16	43.32	63.02	+4	+6	45.52 45.52	12.12 12.44	+4 +3	−2 −5	43.22	21.99	−3	−7	37.37	28.09	−4	0
17	43.45	63.29	+5	+3	45.51	12.77	+2	−7	43.07	22.26	−4	−5	37.13	28.21	−3	+3
18	43.59	63.55	+5	0	45.50	13.09	0	−8	42.92	22.52	−5	−2	36.89	28.32	−1	+5
19	43.71	63.83	+4	−3	45.49	13.42	−2	−8	42.77	22.78	−4	+1	36.65	28.43	+2	+6
20	43.84	64.10	+3	−6	45.47	13.75	−4	−7	42.61	23.04	−2	+4	36.40	28.53	+4	+5
21	43.96	64.38	+1	−8	45.45	14.07	−5	−5	42.45	23.29	0	+5	36.15	28.62	+5	+3
22	44.07	64.66	−1	−9	45.42	14.40	−4	−2	42.28	23.54	+3	+5	35.91	28.71	+5	−1
23	44.19	64.95	−3	−8	45.39	14.72	−3	+2	42.11	23.79	+5	+4	35.66	28.80	+4	−4
24	44.29	65.24	−4	−6	45.35	15.04	−1	+4	41.94	24.03	+6	+1	35.41	28.88	+2	−6
25	44.39	65.53	−5	−4	45.31	15.37	+2	+6	41.77	24.27	+5	−2	35.16	28.95	−1	−7
26	44.49	65.82	−4	0	45.26	15.69	+4	+5	41.59	24.50	+3	−5	34.91	29.02	−3	−6
27	44.59	66.12	−2	+3	45.21	16.00	+5	+3	41.41	24.73	+1	−7	34.65	29.08	−5	−4
28	44.67	66.41	0	+5	45.15	16.32	+6	0	41.22	24.95	−2	−7	34.40	29.13	−6	0
29	44.76	66.72	+3	+6	45.09	16.64	+5	−3	41.03	25.17	−4	−5	34.14	29.18	−5	+3
30	44.84	67.02	+5	+5	45.02	16.96	+2	−6	40.84	25.38	−6	−2	33.89	29.22	−3	+6
31	44.92	67.33	+6	+2	44.95	17.27	−1	−7	40.64	25.59	−6	+2	33.63	29.25	−1	+8
32					44.88	17.58	−3	−6					33.37	29.28	+1	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 3′ 50″	11.622	−11.579	−85° 4′ 0″	11.628	−11.585	−85° 4′ 20″	11.641	−11.598
60	11.628	−11.585	10	11.635	−11.592	30	11.648	−11.605

$\alpha_{1940.0} = 1^h\ 40^m\ 39^s.77$ $\delta_{1940.0} = -85°\ 4'\ 24''.43$

Sb) ξ Mensae $5^m.85$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$5^h 5^m$	−82° 33′	in $0^s.01$	in $0''.01$	$5^h 5^m$	−82° 33′	in $0^s.01$	in $0''.01$	$5^h 5^m$	−82° 33′	in $0^s.01$	in $0''.01$	$5^h 5^m$	−82° 33′	in $0^s.01$	in $0''.01$
1	45.16	30.01	+1	+7	41.01	37.42	+1	−5	35.69	40.06	−1	−7	29.85	37.96	−3	0
2	45.06	30.31	+2	+4	40.84	37.59	0	−7	35.50	40.07	−2	−7	29.68	37.81	−3	+3
3	44.96	30.61	+2	0	40.67	37.75	−1	−7	35.30	40.08	−3	−5	29.50	37.66	−2	+5
4	44.86	30.90	+2	−3	40.50	37.90	−2	−6	35.11	40.08	−3	−2	29.32	37.50	−1	+7
5	44.76	31.19	+1	−6	40.32	38.05	−3	−4	34.92	40.07	−3	+1	29.15	37.34	0	+7
6	44.65	31.47	0	−7	40.15	38.20	−3	−1	34.72	40.06	−2	+3	28.98	37.18	+1	+6
7	44.54	31.75	−2	−7	39.98	38.34	−3	+2	34.53	40.05	−1	+6	28.81	37.01	+2	+4
8	44.42	32.03	−2	−5	39.80	38.47	−2	+4	34.33	40.03	0	+6	28.64	36.84	+3	+2
9	44.31	32.30	−3	−3	39.62	38.60	−1	+6	34.14	40.00	+1	+6	28.48	36.66	+3	−1
10	44.19	32.57	−3	0	39.44	38.72	0	+7	33.95	39.97	+2	+5	28.31	36.47	+3	−4
11	44.07	32.84	−2	+3	39.26	38.84	+1	+6	33.76	39.93	+3	+4	28.15	36.29	+2	−6
12	43.95	33.10	−2	+5	39.08	38.95	+2	+5	33.56	39.89	+3	+1	27.99	36.10	+1	−8
13	43.82	33.36	0	+6	38.90	39.06	+3	+3	33.37	39.84	+3	−2	27.83	35.90	0	−7
14	43.69	33.62	+1	+7	38.71	39.16	+3	0	33.18	39.79	+2	−5	27.67	35.70	−1	−5
15	43.56	33.87	+2	+6	38.53	39.26	+3	−4	32.99	39.73	+2	−7	27.51	35.50	−2	−2
16	43.42	34.11	+3	+4	38.34	39.35	+2	−6	32.80	39.67	0	−8	27.36	35.29	−2	+1
17	43.29	34.36	+3	+1	38.16	39.43	+1	−8	32.60	39.60	−1	−7	27.21	35.08	−1	+5
18	43.15	34.59	+3	−2	37.97	39.51	0	−8	32.41	39.52	−2	−4	27.06	34.87	0	+7
19	43.01	34.82	+3	−5	37.78	39.59	−1	−6	32.23	39.44	−2	−1	26.91	34.65	+1	+8
20	42.87	35.05	+2	−7	37.59	39.66	−2	−3	32.04	39.36	−2	+3	26.76	34.43	+2	+6
21	42.72	35.28	+1	−8	37.41	39.72	−2	+1	31.85	39.27	−1	+6	26.61	34.20	+2	+3
22	42.58	35.49	−1	−7	37.22	39.78	−2	+5	31.67	39.17	0	+8	26.47	33.97	+2	0
23	42.43	35.71	−2	−4	37.03	39.84	−1	+7	31.48	39.07	+1	+7	26.33	33.73	+1	−4
24	42.28	35.92	−2	−1	36.84	39.89	0	+8	31.30	38.97	+2	+5	26.19	33.49	0	−6
25	42.13	36.13	−2	+3	36.65	39.93	+1	+7	31.12	38.86	+2	+1	26.05	33.25	−1	−7
26	41.97	36.33	−1	+6	36.46	39.97	+2	+4	30.93	38.75	+2	−2	25.92	33.00	−2	−7
27	41.82	36.52	0	+8	36.27	40.00	+2	0	30.75	38.63	+1	−5	25.79	32.76	−3	−4
28	41.66	36.71	+1	+8	36.07	40.02	+1	−3	30.57	38.51	0	−7	25.66	32.50	−3	−1
29	41.50	36.90	+2	+6	35.88	40.05	0	−6	30.39	38.38	−2	−7	25.53	32.25	−3	+2
30	41.34	37.08	+2	+2	35.69	40.06	−1	−7	30.21	38.25	−3	−5	25.40	31.99	−2	+4
31	41.17	37.25	+2	−2					30.03	38.11	−3	−3	25.27	31.73	−1	+6
32	41.01	37.42	+1	−5					29.85	37.96	−3	0				

δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 30″	7.721	−7.656	−82° 33′ 40″	7.724	−7.659
40	7.724	−7.659	50	7.727	−7.662

$\alpha_{1940.0} = 5^h\ 5^m\ 37^s.66$ $\delta_{1940.0} = -82°\ 33'\ 13''.98$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 32′	$0^s.01$	$0''.01$
1	25.27	31.73	−1	+6	22.65	22.37	+2	+4	22.67	12.47	+3	−4	25.28	63.82	−1	−7
2	25.15	31.46	0	+7	22.61	22.04	+3	+1	22.72	12.15	+2	−6	25.40	63.60	−2	−4
3	25.03	31.19	+1	+6	22.57	21.71	+3	−2	22.77	11.83	+1	−7	25.53	63.38	−2	−1
4	24.91	30.92	+2	+5	22.54	21.38	+2	−5	22.82	11.52	0	−7	25.65	63.17	−2	+3
5	24.79	30.64	+3	+3	22.50	21.05	+1	−7	22.87	11.21	−1	−6	25.78	62.96	−1	+6
6	24.68	30.37	+3	0	22.47	20.72	0	−8	22.93	10.90	−2	−3	25.91	62.75	0	+8
7	24.57	30.09	+3	−3	22.45	20.38	−1	−7	22.99	10.59	−2	+1	26.04	62.55	+1	+7
8	24.46	29.80	+2	−5	*)22.42	20.05	−2	−4	23.05	10.29	−2	+4	26.18	62.35	+2	+5
9	24.36	29.52	+1	−7	22.40	19.72	−2	−1	23.11	9.98	−1	+7	26.31	62.16	+2	+2
10	24.25	29.23	0	−7	22.38	19.39	−2	+2	23.18	9.68	0	+8	26.45	61.97	+2	−2
11	24.15	28.94	−1	−6	22.36	19.05	−1	+5	23.25	9.38	+1	+6	26.59	61.79	+1	−5
12	24.05	28.65	−2	−4	22.35	18.72	0	+7	23.32	9.08	+2	+4	26.73	61.62	0	−6
13	23.96	28.35	−2	0	22.34	18.39	+1	+7	23.39	8.79	+2	0	26.88	61.45	−1	−7
14	23.87	28.05	−2	+3	22.34	18.05	+2	+5	23.47	8.50	+2	−3	27.02	61.28	−2	−6
15	23.78	27.75	−1	+6	22.33	17.72	+2	+2	23.55	8.21	+1	−6	27.16	61.12	−3	−3
16	23.69	27.45	0	+8	22.33	17.38	+2	−1	23.63	7.93	0	−7	27.31	60.97	−3	0
17	23.60	27.14	+1	+7	22.34	17.05	+1	−4	23.72	7.65	−2	−7	27.46	60.82	−3	+3
18	23.52	26.84	+2	+5	22.34	16.72	0	−6	23.80	7.37	−3	−5	27.61	60.67	−2	+5
19	23.44	26.53	+2	+1	22.35	16.39	−1	−7	23.89	7.09	−3	−2	27.76	60.53	−1	+6
20	23.36	26.22	+2	−3	22.36	16.05	−2	−6	23.99	6.82	−3	+1	27.91	60.40	0	+7
21	23.29	25.91	+1	−6	22.37	15.72	−3	−4	24.08	6.55	−2	+4	28.06	60.27	+1	+6
22	23.22	25.60	0	−7	22.39	15.39	−3	−1	24.18	6.28	−1	+6	28.21	60.15	+2	+4
23	23.15	25.28	−2	−7	22.41	15.06	−3	+2	24.28	6.02	0	+7	28.37	60.03	+3	+2
24	23.08	24.96	−3	−5	22.43	14.73	−2	+4	24.38	5.76	+1	+7	28.53	59.92	+3	−1
25	23.02	24.64	−3	−3	22.46	14.41	−1	+6	24.49	5.51	+2	+5	28.68	59.81	+3	−4
26	22.96	24.32	−3	0	22.49	14.08	0	+7	24.60	5.25	+2	+4	28.84	59.71	+2	−6
27	22.90	24.00	−3	+3	22.52	13.76	+1	+6	24.71	5.01	+3	+1	29.00	59.62	+1	−8
28	22.85	23.67	−2	+6	22.56	13.43	+2	+5	24.82	4.76	+3	−2	29.16	59.53	0	−7
29	22.79	23.35	−1	+7	22.59	13.11	+3	+2	24.93	4.52	+2	−5	29.32	59.45	−1	−6
30	22.74	23.02	0	+7	22.63	12.79	+3	−1	25.04	4.28	+1	−7	29.49	59.37	−2	−3
31	22.70	22.70	+1	+6	22.67	12.47	+3	−4	25.16	4.05	0	−8	29.65	59.30	−2	+1
32	22.65	22.37	+2	+4					25.28	3.82	−1	−7	29.81	59.24	−1	+5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 32′ 50″	7.710	−7.644	−82° 33′ 10″	7.715	−7.650	−82° 33′ 30″	7.721	−7.656
60	7.712	−7.647	20	7.718	−7.653	40	7.724	−7.659

$\alpha_{1940.0} = 5^h\ 5^m\ 37^s.66$ $\delta_{1940.0} = -82°\ 33'\ 13''.98$

*) Tag der doppelten unteren Kulmination: Juni 8.



Sb) ξ Mensae $5^{m}.85$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^h\ 5^m$	82° 32′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$
1	$29^s.81$	$59''.24$	−1	+5	$34^s.75$	$0''.19$	+1	+7	$38^s.80$	$6''.68$	+1	−4	$40^s.38$	$16''.36$	−2	−7
2	29.98	59.18	0	+7	34.90	0.32	+2	+5	38.90	6.96	0	−6	40.38	16.71	−3	−5
3	30.14	59.13	+1	+8	35.05	0.45	+2	+2	38.99	7.25	−1	−7	40.39	17.05	−3	−2
4	30.31	59.08	+2	+6	35.21	0.59	+2	−2	39.08	7.54	−2	−6	40.38	17.40	−3	+1
5	30.47	59.04	+2	+4	35.36	0.74	+1	−5	39.17	7.84	−3	−4	40.38	17.74	−3	+4
6	30.64	59.01	+2	0	35.51	0.89	0	−7	39.25	8.13	−3	0	40.37	18.09	−2	+6
7	30.80	58.98	+1	−3	35.66	1.04	−2	−7	39.33	8.44	−3	+3	40.36 / 40.34	18.43 / 18.78	−1 / 0	+7 / +7
8	30.97	58.96	0	−6	35.81	1.21	−3	−5	39.41	8.74	−2	+5	40.32	19.12	+1	+5
9	31.13	58.94	−1	−7	35.95	1.38	−3	−2	39.49	9.05	−1	+7	40.30	19.46	+2	+3
10	31.30	58.93	−2	−6	36.10	1.55	−3	+1	39.56	9.36	0	+7	40.27	19.80	+2	0
11	31.47	58.93	−3	−4	36.24	1.73	−3	+4	39.63	9.68	+1	+6	40.24	20.15	+2	−3
12	31.64	58.93	−3	−1	36.39	1.92	−2	+6	39.70	10.00	+2	+5	40.21	20.49	+2	−5
13	31.80	58.95	−3	+2	36.53	2.11	−1	+7	39.76	10.32	+2	+2	40.17	20.82	+1	−7
14	31.97	58.96	−2	+4	36.67	2.30	0	+7	39.82	10.64	+2	0	40.13	21.16	0	−7
15	32.14	58.99	−1	+6	36.80	2.51	+1	+5	39.88	10.97	+2	−3	40.09	21.50	−1	−6
16	32.31	59.02	0	+7	36.94	2.71	+2	+4	39.93	11.29	+2	−6	40.04	21.83	−2	−4
17	32.47	59.05	+1	+6	37.07	2.92	+2	+1	39.98	11.62	+1	−7	39.99	22.17	−2	−1
18	32.64	59.09	+2	+5	37.20	3.14	+3	−2	40.03	11.95	0	−7	39.94	22.50	−2	+2
19	32.80	59.14	+2	+3	37.33	3.36	+2	−4	40.08	12.28	−1	−6	39.88	22.83	−1	+5
20	32.97	59.19	+3	0	37.46	3.59	+1	−6	40.12	12.61	−2	−3	39.82	23.16	0	+7
21	33.14	59.25	+3	−3	37.59	3.82	+1	−8	40.16	12.95	−2	0	39.76	23.49	+1	+7
22	33.30	59.32	+2	−5	37.71	4.06	0	−7	40.20	13.29	−1	+3	39.69	23.81	+2	+5
23	33.47	59.39	+1	−7	37.83	4.30	−1	−5	40.23	13.62	0	+6	39.62	24.13	+3	+2
24	33.63	59.47	0	−8	37.95	4.55	−2	−2	40.26	13.96	+1	+7	39.55	24.45	+3	−1
25	33.79	59.56	−1	−7	38.06	4.80	−2	+1	40.29	14.30	+2	+6	39.48	24.77	+1	−4
26	33.96	59.65	−2	−4	38.18	5.06	−1	+5	40.31	14.64	+3	+4	39.40	25.08	0	−7
27	34.12	59.74	−2	−1	38.29	5.32	0	+7	40.33	14.98	+3	+1	39.32	25.39	−1	−7
28	34.27	59.85	−1	+3	38.39	5.58	+1	+7	40.35	15.33	+2	−3	39.24	25.70	−2	−6
29	34.43	59.96	−1	+6	38.50	5.85	+2	+6	40.36	15.67	+1	−6	39.15	26.01	−3	−4
30	34.59	60.07	0	+7	38.60	6.12	+3	+3	40.37	16.02	0	−7	39.06	26.31	−3	0
31	34.75	60.19	+1	+7	38.70	6.40	+2	−1	40.38	16.36	−2	−7	38.97	26.61	−3	+3
32					38.80	6.68	+1	−4					38.88	26.91	−2	+5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 32′ 50″	7.710	−7.644	−82° 33′ 0″	7.712	−7.647	−82° 33′ 20″	7.718	−7.653
60	7.712	−7.647	10	7.715	−7.650	30	7.721	−7.656

$\alpha_{1940.0} = 5^h\ 5^m\ 37^s.66$ $\delta_{1940.0} = -82°\ 33'\ 13''.98$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	☾ Glieder	
	$9^h 6^m$	$-85° 25'$	in 0.01^s	in $0.01''$
1	$4^s.72$	$29''.53$	−5	+4
2	4.85	29.86	−4	+6
3	4.98	30.19	−1	+6
4	5.10	30.53	+1	+5
5	5.22	30.87	+3	+2
6	5.33	31.21	+5	−1
7	5.44	31.56	+5	−4
8	5.55	31.91	+4	−7
9	5.65	32.26	+2	−8
10	5.74	32.61	0	−8
11	5.83	32.96	−2	−6
12	5.92	33.31	−4	−4
13	6.00	33.67	−5	−1
14	6.07	34.03	−5	+2
15	6.14	34.39	−4	+5
16	6.21	34.76	−3	+7
17	6.27	35.12	−1	+8
18	6.32	35.49	+2	+8
19	6.37	35.86	+4	+7
20	6.42	36.23	+6	+4
21	6.46	36.60	+7	+1
22	6.49	36.97	+6	−3
23	6.52	37.34	+4	−5
24	6.55	37.72	+1	−6
25	6.57	38.09	−2	−6
26	6.59	38.47	−4	−3
27	6.60	38.84	−6	0
28	6.60	39.22	−6	+3
29	6.60	39.60	−5	+5
30	6.60	39.98	−2	+6
31	6.59	40.35	0	+5
32	6.57	40.73	+3	+3

Tag	Februar AR.	Februar Dekl.	☾ Glieder	
	$9^h 6^m$	$-85° 25'$	in 0.01^s	in $0.01''$
1	$6^s.57$	$40''.73$	+3	+3
2	6.55	41.11	+4	0
3	6.53	41.49	+4	−4
4	6.50	41.87	+4	−6
5	6.47	42.25	+2	−8
6	6.43	42.63	0	−8
7	{6.39 {6.34	43.01 43.39	−2 −3	−7} −5}
8	6.29	43.76	−4	−2
9	6.23	44.14	−5	+1
10	6.17	44.51	−4	+4
11	6.10	44.89	−3	+6
12	6.03	45.26	−1	+8
13	5.95	45.63	+1	+8
14	5.87	46.00	+3	+7
15	5.78	46.37	+5	+5
16	5.69	46.74	+6	+2
17	5.60	47.11	+6	−1
18	5.50	47.47	+5	−4
19	5.40	47.84	+3	−5
20	5.29	48.20	0	−6
21	5.18	48.56	−3	−4
22	5.06	48.91	−5	−2
23	4.94	49.27	−6	+2
24	4.82	49.63	−5	+5
25	4.69	49.98	−3	+6
26	4.56	50.33	−1	+6
27	4.42	50.68	+2	+4
28	4.28	51.03	+4	+1
29	4.13	51.37	+5	−2
30	3.98	51.71	+4	−6

Tag	März AR.	März Dekl.	☾ Glieder	
	$9^h 5^m$	$-85° 25'$	in 0.01^s	in $0.01''$
1	$63^s.98$	$51''.71$	+4	−6
2	63.83	52.05	+3	−8
3	63.67	52.39	+1	−9
4	63.51	52.72	−1	−8
5	63.35	53.05	−3	−6
6	63.18	53.38	−4	−3
7	63.01	53.71	−5	−1
8	62.83	54.03	−5	+2
9	62.65	54.35	−4	+5
10	62.47	54.66	−2	+7
11	62.29	54.98	0	+8
12	62.10	55.28	+2	+7
13	61.91	55.59	+4	+6
14	61.71	55.89	+6	+4
15	61.51	56.19	+6	+1
16	61.31	56.48	+6	−3
17	61.10	56.78	+4	−5
18	60.89	57.06	+1	−5
19	60.68	57.35	−2	−4
20	60.46	57.63	−4	−2
21	60.25	57.91	−5	+1
22	60.03	58.18	−5	+4
23	59.81	58.45	−4	+6
24	59.58	58.72	−2	+7
25	59.35	58.98	+1	+5
26	59.12	59.24	+3	+3
27	58.89	59.50	+4	−1
28	58.66	59.75	+4	−4
29	58.42	59.99	+4	−7
30	58.18	60.24	+2	−9
31	57.94	60.47	0	−9
32	57.69	60.71	−3	−7

Tag	April AR.	April Dekl.	☾ Glieder	
	$9^h 5^m$	$-85° 26'$	in 0.01^s	in $0.01''$
1	$57^s.69$	$0''.71$	−3	−7
2	57.44	0.94	−4	−5
3	57.19	1.16	−5	−2
4	56.94	1.38	−5	+1
5	56.69	1.59	−4	+4
6	56.43	1.81	−3	+6
7	56.17	2.01	−1	+7
8	55.91	2.21	+1	+7
9	55.65	2.41	+3	+6
10	55.39	2.61	+5	+4
11	55.13	2.79	+6	+1
12	54.86	2.98	+6	−2
13	54.59	3.16	+5	−4
14	54.32	3.33	+3	−5
15	54.05	3.50	0	−5
16	53.78	3.67	−3	−3
17	53.51	3.83	−5	0
18	53.23	3.98	−5	+3
19	52.96	4.13	−4	+6
20	52.68	4.28	−3	+7
21	52.41	4.42	0	+7
22	52.13	4.55	+2	+4
23	51.85	4.68	+4	+1
24	51.57	4.80	+5	−2
25	51.29	4.92	+4	−6
26	51.01	5.03	+3	−8
27	50.73	5.14	+1	−9
28	50.44	5.24	−2	−8
29	50.16	5.34	−4	−6
30	49.88	5.43	−5	−3
31	49.60	5.52	−5	0

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 25′ 20″	12.529	−12.489	−85° 25′ 40″	12.545	−12.505	−85° 26′ 0″	12.560	−12.520
30	12.537	−12.497	50	12.552	−12.512	10	12.567	−12.528

$\alpha_{1940.0} = 9^h\ 5^m\ 47^s.16$ $\delta_{1940.0} = -85°\ 25'\ 33''.46$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

8c) ζ Octantis $5^{m}.38$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$9^h\ 5^m$	85° 26′	$0^s.01$	$0''.01$	$9^h\ 5^m$	85° 26′	$0^s.01$	$0''.01$	$9^h\ 5^m$	85° 25′	$0^s.01$	$0''.01$	$9^h\ 5^m$	85° 25′	$0^s.01$	$0''.01$
1	$49^s.60$	$5''.52$	−5	0	$40^s.99$	$5''.60$	−1	+7	$34^s.20$	$61''.02$	+5	+4	$30^s.42$	$52''.70$	+4	−5
2	49.31	5.60	−5	+3	40.73	5.52	+2	+7	34.02	60.80	+6	+2	30.37	52.40	+1	−6
3	49.03	5.68	−4	+5	40.47	5.43	+3	+5	33.84	60.57	+6	−2	30.32	52.09	−2	−5
4	48.74	5.75	−2	+7	40.21	5.34	+5	+3	33.67	60.35	+5	−4	30.28	51.78	−4	−3
5	48.46	5.82	0	+7	39.96	5.24	+6	0	33.50	60.11	+3	−6	30.24	51.48	−5	0
6	48.17	5.88	+2	+6	39.71	5.14	+5	−3	33.33	59.88	0	−6	30.21	51.17	−5	+3
7	47.89	5.93	+4	+5	39.46	5.03	+4	−5	33.17	59.64	−3	−4	30.18	50.86	−4	+6
8	47.61	5.98	+6	+2	39.21	4.92	+2	−6	33.01	59.40	−5	−2	*)30.16	50.55	−2	+7
9	47.32	6.03	+6	−1	38.96	4.80	−1	−5	32.86	59.15	−5	+2	30.14	50.24	+1	+6
10	47.04	6.07	+5	−3	38.71	4.67	−3	−3	32.70	58.90	−5	+5	30.13	49.92	+3	+3
11	46.76	6.10	+3	−5	38.47	4.54	−5	0	32.56	58.65	−3	+6	30.12	49.61	+4	0
12	46.47	6.13	+1	−5	38.23	4.41	−5	+3	32.41	58.39	−1	+7	30.12	49.30	+4	−3
13	46.19	6.16	−2	−4	37.99	4.27	−4	+6	32.27	58.13	+2	+5	30.12	48.98	+4	−6
14	45.91	6.18	−4	−2	37.76	4.13	−2	+7	32.13	57.87	+4	+2	30.12	48.67	+2	−8
15	45.63	6.19	−5	+1	37.53	3.98	0	+7	32.00	57.60	+5	−1	30.13	48.35	0	−8
16	45.34	6.20	−5	+5	37.30	3.83	+3	+4	31.87	57.33	+4	−5	30.15	48.04	−2	−7
17	45.06	6.20	−3	+7	37.07	3.67	+4	+1	31.75	57.06	+3	−7	30.17	47.73	−4	−5
18	44.79	6.20	−1	+7	36.85	3.51	+5	−2	31.63	56.78	+1	−8	30.19	47.42	−5	−2
19	44.51	6.19	+1	+6	36.63	3.34	+4	−6	31.51	56.51	−1	−8	30.22	47.10	−5	+1
20	44.23	6.18	+4	+3	36.41	3.17	+3	−8	31.40	56.23	−3	−6	30.26	46.79	−4	+4
21	43.96	6.16	+5	−1	36.19	3.00	0	−8	31.29	55.95	−5	−4	30.30	46.48	−3	+6
22	43.68	6.14	+5	−4	35.98	2.82	−2	−8	31.19	55.66	−5	−1	30.34	46.17	−1	+7
23	43.41	6.11	+4	−7	35.77	2.64	−4	−6	31.09	55.37	−5	+2	30.39	45.86	+1	+7
24	43.14	6.07	+2	−9	35.56	2.45	−5	−3	31.00	55.08	−4	+5	30.44	45.55	+3	+6
25	42.87	6.03	−1	−9	35.36	2.26	−5	0	30.91	54.79	−2	+7	30.50	45.24	+5	+4
26	42.59	5.99	−3	−7	35.15	2.06	−5	+3	30.83	54.50	0	+8	30.57	44.94	+6	+2
27	42.32	5.94	−5	−5	34.96	1.86	−3	+6	30.75	54.20	+2	+7	30.63	44.63	+6	−2
28	42.06	5.88	−5	−2	34.76	1.66	−2	+7	30.68	53.91	+4	+5	30.71	44.33	+5	−4
29	41.79	5.82	−5	+2	34.57	1.45	+1	+7	30.61	53.61	+6	+3	30.79	44.02	+3	−5
30	41.52	5.75	−4	+4	34.38	1.24	+3	+6	30.54	53.31	+6	0	30.87	43.72	0	−5
31	41.26	5.68	−3	+6	34.20	1.02	+5	+4	30.48	53.00	+6	−3	30.96	43.42	−3	−4
32	40.99	5.60	−1	+7					30.42	52.70	+4	−5	31.05	43.12	−5	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 25′ 40″	12.545	−12.505	−85° 25′ 50″	12.552	−12.512	−85° 26′ 0″	12.560	−12.520
50	12.552	−12.512	60	12.560	−12.520	10	12.567	−12.528

$\alpha_{1940.0} = 9^h\ 5^m\ 47^s.16$ $\delta_{1940.0} = -85°\ 25'\ 33''.46$

*) Tag der doppelten unteren Kulmination: Aug. 8.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m_.38$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$9^h 5^m$	−85° 25′	in $0^s.01$	in $0''.01$	$9^h 5^m$	−85° 25′	in $0^s.01$	in $0''.01$	$9^h 5^m$	−85° 25′	in $0^s.01$	in $0''.01$	$9^h 5^m$	−85° 25′	in $0^s.01$	in $0''.01$
	s	"			s	"			s	"			s	"		
1	31.05	43.12	−5	−1	35.85	35.59	−4	+7	43.75	32.39	+4	+2	51.81	35.10	+3	−7
2	31.15	42.82	−5	+2	36.07	35.40	−1	+7	44.03	32.39	+5	−2	52.06	35.29	+1	−9
3	31.25	42.53	−5	+5	36.29	35.22	+1	+6	44.31	32.39	+4	−6	52.30	35.48	−1	−9
4	31.36	42.24	−3	+7	36.52	35.04	+3	+3	44.59	32.40	+2	−9	52.53	35.68	−4	−7
5	31.47	41.95	−1	+6	36.75	34.87	+4	0	44.86	32.42	0	−9	52.77	35.89	−5	−4
6	31.59	41.66	+2	+5	36.98	34.70	+4	−4	45.14	32.44	−2	−8	53.00	36.10	−6	−1
7	31.71	41.38	+4	+2	37.21	34.54	+3	−7	45.42	32.47	−4	−6	53.23	36.31	−5	+2
8	31.83	41.09	+5	−2	37.45	34.38	+1	−9	45.70	32.51	−6	−3	53.46	36.53	−4	+4
9	31.96	40.82	+4	−6	37.69	34.23	−1	−9	45.98	32.55	−6	0	53.68	36.76	−2	+6
10	32.09	40.54	+2	−8	37.93	34.08	−3	−7	46.26	32.60	−5	+3	53.90	36.99	0	+6
11	32.23	40.27	0	−9	38.18	33.94	−5	−5	46.54	32.65	−4	+5	54.12	37.23	+2	+6
12	32.37	40.00	−2	−8	38.42	33.80	−5	−2	46.81	32.72	−2	+6	54.33	37.47	+4	+4
13	32.52	39.73	−4	−6	38.68	33.68	−5	+1	47.09	32.79	+1	+6	54.54	37.71	+5	+2
14	32.67	39.47	−5	−3	38.93	33.55	−4	+4	47.36	32.86	+2	+5	54.74	37.97	+6	−1
15	32.82	39.21	−5	0	39.18	33.44	−3	+6	47.64	32.94	+4	+4	54.95	38.22	+5	−3
16	32.98	38.95	−5	+3	39.44	33.33	−1	+6	47.91	33.03	+5	+1	55.14	38.48	+4	−5
17	33.14	38.70	−4	+5	39.70	33.22	+1	+6	48.18	33.13	+6	−1	55.34	38.75	+1	−5
18	33.31	38.45	−2	+6	39.95	33.12	+3	+5	48.45	33.23	+5	−3	55.53	39.02	−1	−5
19	33.48	38.20	0	+7	40.22	33.03	+5	+3	48.72	33.34	+3	−5	55.72	39.30	−3	−3
20	33.66	37.96	+2	+6	40.48	32.94	+6	+1	48.99	33.45	+1	−5	55.90	39.58	−4	0
21	33.84	37.72	+4	+5	40.75	32.86	+6	−2	49.26	33.57	−2	−4	56.08	39.86	−5	+3
22	34.03	37.49	+6	+3	41.02	32.79	+4	−4	49.52	33.70	−4	−1	56.26	40.15	−4	+6
23	34.21	37.26	+6	0	41.28	32.72	+2	−5	49.78	33.83	−5	+2	56.43	40.44	−2	+7
24	34.41	37.04	+6	−3	41.55	32.66	0	−5	50.04	33.97	−4	+5	56.60	40.74	+1	+7
25	34.60	36.82	+4	−5	41.83	32.61	−3	−3	50.30	34.12	−3	+7	56.76	41.04	+3	+5
26	34.80	36.60	+1	−5	42.10	32.56	−4	0	50.56	34.27	−1	+8	56.92	41.34	+4	+2
27	35.00	36.39	−2	−4	42.37	32.51	−5	+3	50.82	34.42	+2	+6	57.07	41.65	+5	−2
28	35.21	36.18	−4	−2	42.65	32.48	−4	+6	51.07	34.58	+4	+3	57.22	41.96	+4	−6
29	35.42	35.98	−5	+1	42.92	32.45	−2	+8	51.32	34.75	+5	0	57.37	42.28	+2	−8
30	35.63	35.78	−5	+4	43.20	32.42	0	+7	51.57	34.92	+5	−4	57.51	42.60	0	−9
31	35.85	35.59	−4	+7	43.48	32.40	+3	+5	51.81	35.10	+3	−7	57.65	42.92	−2	−8
32					43.75	32.39	+4	+2					57.78	43.25	−4	−5

δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 25′ 30″	12.537	−12.497	−85° 25′ 40″	12.545	−12.505
40	12.545	−12.505	50	12.552	−12.512

$\alpha_{1940.0} = 9^h\ 5^m\ 47^s.16$ $\delta_{1940.0} = -85°\ 25'\ 33''.46$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$12^h 48^m$	84° 47′	$0^s.01$	0″.01	$12^h 48^m$	84° 47′	$0^s.01$	0″.01	$12^h 48^m$	84° 47′	$0^s.01$	0″.01	$12^h 48^m$	84° 47′	$0^s.01$	0″.01
	s	″			s	″			s	″			s	″		
1	34.17	34.10	−5	−3	41.84	39.08	0	+ 5	47.10	47.79	+4	+3	49.62	59.18	+5	−7
2	34.43	34.18	−5	0	42.07	39.33	+2	+ 4	47.23	48.13	+6	0	49.65	59.55	+3	−8
3	34.69	34.25	−4	+3	42.28	39.58	+5	+ 2	47.36	48.48	+6	−3	49.67	59.93	+1	−8
4	34.96	34.34	−2	+5	42.50	39.84	+6	0	47.49	48.83	+6	−5	49.69 49.70	60.30 60.68	−1 −3	−7 −5
5	35.22	34.43	0	+5	42.71	40.10	+6	− 3	47.61	49.19	+4	−7	49.71	61.05	−5	−2
6	35.48	34.53	+3	+4	42.92	40.36	+5	− 6	47.73	49.54	+2	−8	49.72	61.42	−5	+1
7	35.74	34.63	+5	+2	43.13	40.63	+4	− 7	47.85	49.90	0	−7	49.72	61.80	−5	+4
8	36.01	34.74	+6	−1	43.33	40.90	+1	− 7	47.96	50.26	−2	−6	49.72	62.17	−4	+7
9	36.27	34.86	+6	−4	43.53	41.18	−1	− 7	48.07	50.62	−4	−3	49.71	62.54	−2	+8
10	36.52	34.98	+5	−6	43.73	41.46	−3	− 5	48.18	50.98	−5	−1	49.71	62.91	0	+8
11	36.78	35.11	+3	−7	43.93	41.74	−5	− 2	48.28	51.34	−5	+2	49.69	63.28	+2	+8
12	37.04	35.24	+1	−7	44.12	42.03	−6	+ 1	48.38	51.70	−5	+5	49.68	63.64	+4	+5
13	37.29	35.38	−2	−6	44.31	42.32	−6	+ 4	48.48	52.07	−4	+8	49.66	64.01	+5	+2
14	37.55	35.53	−4	−4	44.50	42.62	−5	+ 7	48.57	52.44	−2	+9	49.64	64.38	+4	−1
15	37.80	35.68	−5	−1	44.68	42.92	−3	+ 9	48.66	52.81	0	+9	49.61	64.74	+3	−4
16	38.05	35.84	−6	+2	44.87	43.22	−1	+10	48.74	53.18	+3	+7	49.59	65.10	+1	−5
17	38.31	36.00	−6	+5	45.04	43.53	+1	+ 9	48.83	53.55	+4	+4	49.55	65.46	−2	−5
18	38.55	36.17	−4	+8	45.22	43.83	+4	+ 6	48.90	53.92	+5	+1	49.52	65.82	−4	−4
19	38.80	36.35	−2	+9	45.39	44.15	+5	+ 3	48.98	54.29	+4	−3	49.48	66.17	−6	−1
20	39.05	36.53	0	+9	45.56	44.46	+5	− 1	49.05	54.66	+2	−5	49.44	66.53	−6	+2
21	39.29	36.71	+3	+7	45.73	44.78	+3	− 4	49.12	55.03	0	−6	49.39	66.88	−4	+5
22	39.53	36.90	+4	+4	45.90	45.10	+1	− 6	49.18	55.41	−3	−5	49.34	67.23	−2	+6
23	39.78	37.10	+5	0	46.06	45.43	−1	− 7	49.24	55.79	−5	−3	49.29	67.58	+1	+5
24	40.01	37.30	+5	−3	46.22	45.76	−4	− 5	49.30	56.16	−6	0	49.24	67.93	+4	+3
25	40.25	37.50	+3	−6	46.37	46.09	−5	− 2	49.35	56.54	−5	+3	49.18	68.27	+6	0
26	40.48	37.71	0	−7	46.53	46.42	−5	+ 1	49.40	56.92	−3	+5	49.12	68.62	+7	−3
27	40.72	37.93	−3	−7	46.67	46.76	−4	+ 3	49.45	57.29	0	+5	49.05	68.96	+6	−6
28	40.94	38.15	−5	−4	46.82	47.10	−2	+ 5	49.49	57.67	+3	+4	48.98	69.29	+4	−8
29	41.17	38.37	−5	−1	46.96	47.44	+1	+ 5	49.53	58.05	+5	+2	48.91	69.63	+2	−9
30	41.40	38.61	−5	+2	47.10	47.79	+4	+ 3	49.56	58.42	+6	−1	48.84	69.96	0	−8
31	41.62	38.84	−3	+4					49.60	58.80	+7	−5	48.76	70.29	−2	−6
32	41.84	39.08	0	+5					49.62	59.18	+5	−7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 47′ 30″	11.016	−10.971	−84° 47′ 50″	11.028	−10.982	−84° 48′ 10″	11.039	−10.994
40	11.022	−10.976	60	11.034	−10.988	20	11.045	−11.000

$\alpha_{1940.0} = 12^h\ 48^m\ 27^s.66$ $\delta_{1940.0} = -84°\ 47'\ 53''.05$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	12^h48^m	84° 48′	$0.^s01$	0.″01	12^h48^m	84° 48′	$0.^s01$	0.″01	12^h48^m	84° 48′	$0.^s01$	0.″01	12^h48^m	84° 48′	$0.^s01$	0.″01
1	$48.^s76$	10.″29	−2	−6	$44.^s84$	18.″87	−5	+5	$39.^s01$	23.″05	0	+8	$32.^s39$	22.″16	+5	+1
2	48.68	10.62	−4	−3	44.67	19.08	−3	+7	38.80	23.10	+2	+8	32.19	22.04	+4	−3
3	48.59	10.94	−5	0	44.50	19.29	−2	+8	38.59	23.15	+4	+5	31.98	21.92	+2	−6
4	48.50	11.26	−5	+3	44.33	19.49	0	+8	38.37	23.20	+5	+2	31.79	21.79	0	−6
5	48.41	11.58	−4	+5	44.15	19.69	+3	+6	38.16	23.24	+5	−1	31.59	21.65	−3	−6
6	48.31	11.90	−3	+7	43.97	19.89	+4	+4	37.94	23.27	+4	−4	31.39	21.51	−5	−3
7	48.21	12.21	−1	+8	43.79	20.07	+5	+1	37.72	23.30	+1	−6	31.20	21.37	−6	0
8	48.11	12.52	+1	+8	43.61	20.26	+4	−3	37.51	23.32	−1	−6	31.01	21.22	−5	+3
9	48.00	12.83	+3	+6	43.43	20.44	+3	−5	37.29	23.34	−4	−5	30.81	21.06	−3	+5
10	47.90	13.13	+4	+3	43.25	20.61	0	−6	37.07	23.35	−5	−2	30.63	20.90	−1	+5
11	47.79	13.43	+5	0	43.06	20.78	−2	−5	36.86	23.35	−6	+1	30.44	20.74	+2	+4
12	47.68	13.73	+4	−3	42.87	20.94	−4	−3	36.64	23.35	−4	+4	30.25	20.57	+5	+2
13	47.56	14.02	+2	−5	42.68	21.10	−6	0	36.42	23.35	−2	+6	30.07	20.39	+6	−1
14	47.44	14.31	−1	−6	42.48	21.25	−5	+3	36.21	23.34	0	+6	29.89	20.21	+6	−4
15	47.32	14.59	−3	−4	42.29	21.40	−4	+5	35.99	23.32	+3	+4	29.71	20.02	+5	−6
16	47.19	14.88	−5	−2	42.09	21.54	−1	+6	35.77	23.30	+5	+2	29.54	19.83	+3	−8
17	47.06	15.15	−6	+1	41.89	21.68	+1	+6	35.56	23.27	+6	−2	29.36	19.64	+1	−8
18	46.93	15.43	−5	+4	41.70	21.81	+4	+3	35.34	23.23	+6	−5	29.19	19.44	−1	−7
19	46.80	15.70	−3	+6	41.50	21.94	+6	0	35.12	23.19	+5	−7	29.03	19.24	−3	−5
20	46.66	15.97	0	+6	41.29	22.06	+6	−3	34.91	23.15	+3	−8	28.86	19.03	−5	−2
21	46.53	16.23	+3	+5	41.09	22.18	+6	−6	34.69	23.10	0	−8	28.70	18.82	−5	+1
22	46.38	16.49	+5	+2	40.89	22.29	+4	−8	34.48	23.04	−2	−6	28.54	18.60	−5	+4
23	46.24	16.75	+6	−1	40.69	22.40	+2	−8	34.27	22.98	−4	−4	28.38	18.38	−4	+7
24	46.10	17.00	+6	−5	40.48	22.50	−1	−7	34.05	22.91	−5	−1	28.23	18.15	−3	+8
25	45.95	17.25	+5	−7	40.27	22.59	−3	−5	33.84	22.84	−5	+2	28.08	17.92	0	+9
26	45.80	17.49	+3	−8	40.07	22.68	−4	−3	33.63	22.76	−5	+5	27.93	17.69	+2	+8
27	45.64	17.73	+1	−8	39.86	22.77	−5	0	33.42	22.67	−3	+8	27.78	17.45	+4	+5
28	45.49	17.97	−2	−7	39.65	22.85	−5	+4	33.21	22.58	−2	+9	27.64	17.21	+5	+2
29	45.33	18.20	−4	−5	39.44	22.92	−4	+6	33.01	22.49	+1	+8	27.49	16.97	+5	−1
30	45.17	18.43	−5	−2	39.23	22.99	−3	+8	32.80	22.38	+3	+7	27.36	16.72	+3	−4
31	45.01	18.65	−5	+2	39.01	23.05	0	+8	32.59	22.27	+4	+4	27.22	16.47	+1	−6
32	44.84	18.87	−5	+5					32.39	22.16	+5	+1	27.09	16.21	−2	−6

δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 48′ 10″	11.039	−10.994	−84° 48′ 20″	11.045	−11.000
20	11.045	−11.000	30	11.051	−11.006

$\alpha_{1940.0} = 12^h\ 48^m\ 27.^s66$ $\delta_{1940.0} = -84°\ 47'\ 53.''05$

Sd) ι Octantis $5^m.38$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	12^h48^m	$84°48'$	$0^s.01$	$0''.01$	12^h48^m	$84°47'$	$0^s.01$	$0''.01$	12^h48^m	$84°47'$	$0^s.01$	$0''.01$	12^h48^m	$84°47'$	$0^s.01$	$0''.01$
1	$27^s.09$	$16''.21$	−2	−6	$25^s.00$	$67''.37$	−6	+1	$27^s.01$	$58''.05$	+1	+6	$32^s.64$	$52''.07$	+6	−2
2	26.96	15.95	−4	−4	25.00	67.06	−5	+4	27.14	57.79	+4	+3	32.87	51.95	+6	−5
3	26.84	15.69	−5	−1	*)25.00	66.74	−3	+5	27.28	57.53	+6	0	33.11	51.84	+5	−8
4	26.72	15.42	−6	+2	25.01	66.42	0	+6	27.42	57.27	+7	−4	33.35	51.74	+3	−9
5	26.61	15.15	−4	+4	25.02	66.11	+3	+4	27.57	57.02	+6	−7	33.59	51.64	0	−9
6	26.49	14.88	−2	+5	25.03	65.79	+5	+1	27.72	56.77	+4	−9	33.83	51.54	−2	−7
7	26.39	14.61	+1	+5	25.05	65.47	+6	−2	27.88	56.52	+2	−9	34.07	51.46	−4	−4
8	26.28	14.33	+4	+3	25.07	65.16	+6	−5	28.04	56.28	−1	−8	34.31	51.38	−5	−1
9	26.18	14.05	+6	0	25.10	64.84	+5	−8	28.20	56.04	−3	−6	34.56	51.30	−5	+2
10	26.08	13.77	+7	−3	25.13	64.53	+3	−9	28.37	55.81	−4	−3	34.81	51.23	−4	+4
11	25.99	13.48	+6	−6	25.17	64.22	+1	−9	28.54	55.58	−5	0	35.06	51.17	−3	+6
12	25.90	13.19	+4	−8	25.21	63.91	−2	−7	28.71	55.36	−5	+3	35.31	51.12	−1	+7
13	25.81	12.90	+2	−8	25.26	63.59	−3	−5	28.89	55.14	−4	+5	35.56	51.07	+1	+7
14	25.73	12.61	0	−8	25.31	63.28	−5	−2	29.07	54.93	−2	+7	35.82	51.03	+3	+5
15	25.65	12.31	−2	−6	25.37	62.98	−5	+1	29.26	54.72	0	+7	36.07	50.99	+5	+3
16	25.58	12.02	−4	−3	25.43	62.67	−4	+4	29.44	54.51	+2	+7	36.33	50.96	+5	0
17	25.51	11.72	−5	0	25.50	62.36	−3	+6	29.64	54.31	+3	+5	36.58	50.93	+4	−3
18	25.45	11.42	−5	+3	25.57	62.06	−2	+7	29.83	54.11	+4	+3	36.84	50.91	+2	−5
19	25.39	11.11	−4	+5	25.64	61.75	0	+8	30.03	53.92	+5	0	37.10	50.90	0	−5
20	25.33	10.81	−3	+7	25.72	61.45	+2	+7	30.23	53.74	+4	−3	37.36	50.89	−2	−5
21	25.28	10.50	−1	+8	25.80	61.15	+4	+5	30.44	53.56	+2	−5	37.62	50.89	−5	−3
22	25.23	10.19	+1	+8	25.89	60.86	+5	+2	30.65	53.39	−1	−5	37.88	50.90	−6	0
23	25.19	9.89	+3	+7	25.98	60.56	+4	−1	30.86	53.22	−3	−3	38.14	50.91	−6	+4
24	25.15	9.58	+4	+4	26.08	60.27	+3	−4	31.07	53.06	−5	−1	38.40	50.93	−4	+6
25	25.12	9.26	+5	+1	26.18	59.99	0	−5	31.29	52.90	−6	+2	38.66	50.96	−2	+7
26	25.09	8.95	+4	−3	26.29	59.70	−2	−5	31.51	52.75	−5	+5	38.92	50.99	+1	+6
27	25.06	8.64	+2	−5	26.40	59.42	−5	−3	31.73	52.60	−3	+7	39.19	51.03	+4	+4
28	25.04	8.32	−1	−5	26.51	59.14	−6	0	31.95	52.46	0	+7	39.45	51.08	+6	0
29	25.02	8.01	−3	−4	26.63	58.86	−6	+3	32.18	52.32	+3	+5	39.71	51.13	+6	−3
30	25.01	7.69	−5	−2	26.75	58.59	−4	+5	32.41	52.19	+5	+2	39.97	51.19	+5	−6
31	25.00	7.37	−6	+1	26.88	58.32	−2	+6	32.64	52.07	+6	−2	40.23	51.26	+4	−8
32					27.01	58.05	+1	+6					40.50	51.33	+1	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 47′ 50″	11.028	−10.982	−84° 48′ 0″	11.034	−10.988	−84° 48′ 10″	11.039	−10.994
60	11.034	−10.988	10	11.039	−10.994	20	11.045	−11.000

$\alpha_{1940.0} = 12^h\ 48^m\ 27^s.66$ $\delta_{1940.0} = -84°\ 47'\ 53''.05$

*) Tag der doppelten unteren Kulmination: Okt. 3.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Se) 20 G. Octantis $6^m_.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$14^h 56^m$	87° 54′	0ˢ.01	0″.01	$14^h 56^m$	87° 54′	0ˢ.01	0″.01	$14^h 57^m$	87° 54′	0ˢ.01	0″.01	$14^h 57^m$	87° 54′	0ˢ.01	0″.01
1	31.57	9.18	−8	−6	51.87	7.94	−4	+5	10.89	11.64	+6	+5	27.05	19.59	+17	−3
2	32.17	9.06	−11	−3	52.55	8.00	+2	+6	11.49	11.84	+12	+4	27.47	19.90	+14	−6
3	32.78	8.94	−11	0	53.23	8.06	+8	+5	12.10	12.04	+16	+2	27.87	20.21	+9	−7
4	33.39	8.82	−8	+3	53.91	8.12	+13	+3	12.70	12.25	+17	−1	28.27	20.52	+3	−7
5	34.01	8.71	−3	+6	54.59	8.19	+16	+1	13.29	12.46	+15	−4	28.66	20.83	−3	−6
6	34.63	8.61	+4	+6	55.26	8.27	+16	−2	13.88	12.68	+11	−6	29.04	21.15	−8	−5
7	35.26	8.51	+9	+5	55.94	8.35	+13	−4	14.47	12.90	+6	−7	29.42	21.47	−12	−2
8	35.89	8.42	+14	+3	56.62	8.44	+9	−6	15.04	13.13	0	−7	29.79	21.79	−14	0
9	36.53	8.33	+15	0	57.29	8.53	+3	−7	15.62	13.36	−5	−6	30.14	22.11	−14	+3
10	37.17	8.25	+15	−3	57.96	8.63	−3	−6	16.18	13.59	−10	−4	30.49	22.43	−11	+6
11	37.81	8.18	+11	−5	58.63	8.73	−8	−5	16.74	13.83	−14	−1	30.84	22.75	−7	+8
12	38.45	8.11	+7	−6	59.30	8.84	−12	−3	17.30	14.07	−15	+2	31.17	23.08	−2	+9
13	39.10	8.05	+1	−7	59.97	8.95	−15	0	17.85	14.31	−14	+5	31.49	23.41	+4	+7
14	39.75	7.99	−5	−6	60.64	9.07	−16	+3	18.39	14.56	−11	+7	31.81	23.74	+8	+5
15	40.41	7.94	−10	−4	61.30	9.19	−14	+6	18.93	14.81	−6	+9	32.12	24.07	+10	+2
16	41.07	7.89	−14	−2	61.96	9.32	−9	+8	19.46	15.07	0	+9	32.42	24.41	+9	−2
17	41.73	7.85	−16	+1	62.62	9.45	−4	+9	19.99	15.32	+6	+7	32.71	24.74	+5	−5
18	42.40	7.82	−15	+5	63.28	9.59	+3	+8	20.51	15.59	+9	+4	32.99	25.08	−1	−7
19	43.07	7.79	−12	+7	63.93	9.74	+8	+6	21.02	15.85	+10	0	33.26	25.42	−7	−6
20	43.74	7.77	−7	+9	64.58	9.88	+11	+2	21.52	16.12	+8	−4	33.53	25.75	−12	−4
21	44.41	7.75	0	+9	65.23	10.04	+11	−2	22.02	16.39	+4	−6	33.78	26.09	−14	−1
22	45.08	7.74	+6	+7	65.87	10.20	+7	−5	22.51	16.67	−3	−7	34.03	26.44	−13	+2
23	45.75	7.73	+11	+4	66.51	10.36	+2	−7	23.00	16.95	−9	−6	34.26	26.78	−8	+5
24	46.43	7.73	+12	0	67.15	10.53	−4	−7	23.48	17.23	−12	−4	34.49	27.12	−1	+6
25	47.11	7.74	+10	−4	67.78	10.70	−9	−6	23.95	17.52	−13	0	34.71	27.46	+6	+6
26	47.79	7.75	+6	−7	68.41	10.88	−12	−3	24.42	17.81	−10	+3	34.92	27.81	+13	+4
27	48.47	7.77	0	−8	69.04	11.06	−11	+1	24.87	18.10	−4	+5	35.12	28.15	+17	+1
28	49.15	7.79	−6	−7	69.66	11.25	−7	+4	25.32	18.39	+3	+6	35.31	28.50	+18	−2
29	49.83	7.82	−11	−5	70.27	11.44	−1	+5	25.77	18.69	+10	+5	35.49	28.84	+15	−5
30	50.51	7.86	−11	−1	70.89	11.64	+6	+5	26.20	18.99	+15	+3	35.67	29.19	+11	−7
31	51.19	7.90	−9	+2					26.63	19.29	+18	0	35.83	29.53	+5	−8
32	51.87	7.94	−4	+5					27.05	19.59	+17	−3				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 54′ 0″	27.290	−27.271	−87° 54′ 10″	27.326	−27.308	−87° 54′ 20″	27.362	−27.344
10	27.326	−27.308	20	27.362	−27.344	30	27.398	−27.380

$\alpha_{1940.0} = 14^h\ 56^m\ 36^s.85$ $\delta_{1940.0} = -87°\ 54'\ 29''.74$

Se) 20 G. Octantis $6^m.52$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$14^h 57^m$	$87° 54'$	$0^s.01$	$0''.01$	$14^h 57^m$	$87° 54'$	$0^s.01$	$0''.01$	$14^h 57^m$	$87° 54'$	$0^s.01$	$0''.01$	$14^h 56^m$	$87° 54'$	$0^s.01$	$0''.01$
1	35.83	29.53	+ 5	−8	36.12	40.33	−14	+1	27.96	48.46	− 7	+8	73.14	52.82	+10	+4
2	35.99	29.88	− 1	−7	35.97	40.64	−13	+4	27.57	48.67	− 2	+8	72.59	52.88	+11	0
3	36.13	30.22	− 6	−6	35.81	40.95	−10	+6	27.17	48.88	+ 4	+7	72.05	52.93	+ 9	−4
4	36.27	30.57	−10	−3	35.65	41.26	− 5	+8	26.76	49.08	+ 9	+5	71.50	52.97	+ 5	−6
5	36.40	30.92	−13	−1	35.48	41.57	+ 1	+8	26.34	49.28	+12	+2	70.95	53.01	− 2	−7
6	36.51 / 36.62	31.26 / 31.61	−14 / −12	+2 / +5	35.30	41.87	+ 6	+7	25.92	49.48	+11	−2	70.40	53.04	− 7	−6
7	36.72	31.96	− 8	+7	35.10	42.17	+10	+4	25.49	49.67	+ 8	−5	69.85	53.07	−11	−4
8	36.81	32.30	− 3	+8	34.90	42.47	+11	0	25.06	49.86	+ 2	−7	69.30	53.09	−12	−1
9	36.89	32.65	+ 2	+8	34.69	42.77	+10	−3	24.62	50.04	− 4	−7	68.75	53.11	−10	+3
10	36.96	33.00	+ 7	+6	34.47	43.06	+ 5	−6	24.18	50.22	− 9	−5	68.19	53.12	− 5	+5
11	37.02	33.34	+10	+3	34.25	43.35	− 1	−7	23.73	50.39	−13	−2	67.64	53.12	+ 2	+6
12	37.08	33.69	+10	−1	34.01	43.64	− 7	−6	23.27	50.56	−12	+1	67.08	53.12	+ 8	+5
13	37.12	34.03	+ 8	−4	33.76	43.93	−12	−4	22.81	50.72	− 9	+4	66.53	53.11	+13	+3
14	37.15	34.37	+ 2	−6	33.51	44.21	−14	−1	22.34	50.88	− 3	+6	65.97	53.09	+16	0
15	37.17	34.71	− 4	−6	33.25	44.49	−12	+3	21.87	51.03	+ 3	+6	65.41	53.07	+16	−3
16	37.19	35.06	−10	−5	32.98	44.76	− 8	+5	21.39	51.18	+10	+5	64.86	53.05	+13	−5
17	37.19	35.40	−13	−2	32.70	45.03	− 1	+6	20.90	51.32	+14	+3	64.30	53.02	+ 8	−7
18	37.18	35.73	−14	+1	32.41	45.30	+ 6	+6	20.42	51.46	+16	0	63.74	52.98	+ 3	−7
19	37.17	36.07	−11	+4	32.12	45.57	+12	+4	19.92	51.59	+15	−3	63.19	52.94	− 3	−7
20	37.15	36.41	− 5	+6	31.81	45.83	+16	+1	19.42	51.72	+11	−6	62.63	52.89	− 8	−5
21	37.11	36.74	+ 2	+7	31.50	46.09	+16	−2	18.92	51.84	+ 6	−7	62.08	52.83	−12	−2
22	37.07	37.08	+ 9	+5	31.18	46.34	+14	−5	18.41	51.96	0	−7	61.53	52.77	−14	+1
23	37.02	37.41	+14	+3	30.85	46.59	+10	−7	17.90	52.07	− 5	−6	60.97	52.70	−14	+4
24	36.96	37.74	+17	0	30.52	46.84	+ 4	−8	17.38	52.18	−10	−4	60.43	52.63	−12	+6
25	36.88	38.07	+17	−3	30.18	47.08	− 2	−7	16.87	52.28	−13	−1	59.88	52.55	− 7	+8
26	36.80	38.40	+13	−6	29.83	47.32	− 7	−6	16.34	52.37	−15	+2	59.34	52.47	− 2	+9
27	36.71	38.72	+ 8	−7	29.47	47.56	−12	−3	15.82	52.46	−13	+5	58.80	52.38	+ 4	+8
28	36.61	39.05	+ 2	−8	29.10	47.79	−14	0	15.29	52.55	−10	+7	58.26	52.28	+ 8	+5
29	36.50	39.37	− 4	−7	28.73	48.02	−14	+3	14.76	52.62	− 5	+8	57.72	52.18	+11	+2
30	36.38	39.69	− 9	−5	28.35	48.24	−12	+6	14.22	52.70	+ 1	+8	57.19	52.07	+10	−2
31	36.25	40.01	−13	−2	27.96	48.46	− 7	+8	13.68	52.76	+ 7	+7	56.66	51.96	+ 6	−5
32	36.12	40.33	−14	+1					13.14	52.82	+10	+4	56.13	51.84	+ 1	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 54′ 20″	27.362	−27.344	−87° 54′ 40″	27.435	−27.417	−87° 54′ 50″	27.471	−27.453
30	27.398	−27.380	50	27.471	−27.453	60	27.508	−27.490

$\alpha_{1940.0} = 14^h\ 56^m\ 36^s.85$ $\delta_{1940.0} = -87°\ 54'\ 29''.74$

O 40

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Se) 20 G. Octantis $6^m\!.52$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$14^h 56^m$	$-87° 54'$	in $0^s\!.01$	in $0''\!.01$	$14^h 56^m$	$-87° 54'$	in $0^s\!.01$	in $0''\!.01$	$14^h 56^m$	$-87° 54'$	in $0^s\!.01$	in $0''\!.01$	$14^h 56^m$	$-87° 54'$	in $0^s\!.01$	in $0''\!.01$
1	56.13	51.84	+ 1	−7	42.94	45.95	−13	−3	37.74	36.63	− 1	+6	43.21	27.54	+14	+2
2	55.61	51.72	− 6	−7	42.61	45.69	−14	0	37.76	36.31	+ 6	+6	43.56	27.27	+17	−1
3	55.09	51.59	−11	−5	42.30	45.42	−11	+3	37.78	35.99	+13	+4	43.93	27.01	+17	−4
4	54.58	51.45	−13	−2	41.99	45.15	− 5	+5	37.82	35.67	+17	+1	44.30	26.75	+13	−7
5	54.07	51.31	−12	+1	41.70	44.88	+ 3	+6	*)37.87	35.35	+18	−3	44.69	26.50	+ 7	−8
6	53.57	51.17	− 8	+4	41.41	44.60	+10	+5	37.93	35.03	+16	−6	45.08	26.24	+ 1	−8
7	53.07	51.02	− 1	+6	41.14	44.32	+16	+2	38.00	34.71	+11	−8	45.48	26.00	− 5	−7
8	52.57	50.86	+ 6	+6	40.87	44.04	+18	−1	38.09	34.39	+ 4	−8	45.90	25.75	− 9	−5
9	52.08	50.70	+13	+4	40.62	43.75	+17	−4	38.18	34.07	− 1	−8	46.32	25.51	−12	−2
10	51.59	50.54	+16	+1	40.37	43.46	+13	−6	38.29	33.75	− 6	−6	46.75	25.28	−12	+2
11	51.11	50.37	+17	−2	40.13	43.17	+ 8	−8	38.41	33.43	−10	−3	47.20	25.05	−10	+4
12	50.64	50.19	+15	−5	39.91	42.87	+ 2	−8	38.54	33.12	−12	0	47.65	24.82	− 7	+6
13	50.17	50.01	+11	−7	39.70	42.57	− 4	−7	38.69	32.81	−12	+3	48.10	24.60	− 3	+7
14	49.71	49.83	+ 5	−7	39.49	42.27	− 8	−5	38.84	32.50	−10	+5	48.57	24.38	+ 2	+7
15	49.26	49.63	− 1	−7	39.30	41.97	−12	−2	39.01	32.19	− 6	+7	49.05	24.17	+ 7	+6
16	48.81	49.44	− 6	−6	39.12	41.67	−13	+1	39.19	31.88	− 1	+8	49.53	23.96	+10	+3
17	48.36	49.24	−10	−4	38.95	41.37	−12	+4	39.38	31.57	+ 3	+7	50.02	23.76	+11	0
18	47.93	49.03	−13	−1	38.79	41.06	−10	+6	39.58	31.27	+ 7	+5	50.52	23.56	+ 8	−3
19	47.50	48.82	−14	+2	38.64	40.75	− 5	+8	39.79	30.97	+10	+3	51.03	23.36	+ 4	−5
20	47.07	48.60	−12	+5	38.50	40.44	0	+8	40.02	30.67	+10	−1	51.55	23.17	− 2	−6
21	46.65	48.38	− 9	+7	38.37	40.13	+ 5	+7	40.25	30.37	+ 7	−4	52.07	22.99	− 8	−5
22	46.24	48.16	− 4	+8	38.26	39.81	+ 8	+5	40.50	30.07	+ 2	−6	52.61	22.81	−13	−3
23	45.84	47.93	+ 1	+8	38.15	39.50	+ 9	+2	40.76	29.78	− 5	−6	53.15	22.63	−15	0
24	45.45	47.70	+ 6	+7	38.06	39.19	+ 8	−2	41.03	29.49	−11	−5	53.69	22.46	−13	+3
25	45.07	47.46	+ 9	+4	37.98	38.87	+ 4	−5	41.31	29.20	−14	−2	54.24	22.30	− 9	+5
26	44.69	47.22	+10	0	37.91	38.55	− 2	−6	41.60	28.92	−15	+1	54.80	22.14	− 2	+7
27	44.32	46.97	+ 7	−4	37.85	38.23	− 8	−6	41.90	28.64	−12	+4	55.37	21.98	+ 6	+6
28	43.96	46.72	+ 2	−6	37.81	37.91	−13	−4	42.21	28.36	− 6	+6	55.94	21.83	+12	+4
29	43.61	46.47	− 4	−6	37.77	37.59	−15	−1	42.53	28.08	+ 2	+7	56.52	21.69	+16	+1
30	43.27	46.21	− 9	−5	37.75	37.27	−14	+2	42.86	27.81	+ 9	+6	57.11	21.55	+16	−2
31	42.94	45.95	−13	−3	37.74	36.95	− 9	+5	43.21	27.54	+14	+2	57.70	21.42	+14	−5
32					37.74	36.63	− 1	+6					58.29	21.29	+ 9	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 54′ 20″	27.362	−27.344	−87° 54′ 40″	27.435	−27.417	−87° 54′ 50″	27.471	−27.453
30	27.398	−27.380	50	27.471	−27.453	60	27.508	−27.490

$\alpha_{1940.0} = 14^h\ 56^m\ 36^s\!.85$ $\delta_{1940.0} = -87°\ 54'\ 29''\!.74$

*) Tag der doppelten unteren Kulmination: Nov. 5.

S*f*) 26 G. Octantis $6^{m}.13$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$16^h 37^m$	$86° 15'$	$0^s.01$	$0''.01$	$16^h 38^m$	$86° 15'$	$0^s.01$	$0''.01$	$16^h 38^m$	$86° 15'$	$0^s.01$	$0''.01$	$16^h 38^m$	$86° 15'$	$0^s.01$	$0''.01$
1	$55^s.38$	$29''.89$	−2	−7	$5^s.21$	$24''.22$	−4	+4	$16^s.53$	$23''.21$	+1	+7	$28^s.25$	$26''.67$	+11	+1
2	55.63	29.64	−5	−5	5.58	24.11	−2	+6	16.92	23.25	+5	+6	28.60	26.85	+10	−2
3	55.89	29.40	−6	−2	5.95	24.01	+2	+7	17.32	23.30	+8	+5	28.94	27.04	+8	−5
4	56.15	29.16	−6	+2	6.33	23.91	+5	+6	17.71	23.35	+10	+2	29.28	27.23	+5	−6
5	56.42	28.92	−4	+5	6.71	23.82	+8	+4	18.11	23.41	+10	0	29.62	27.42	+1	−7
6	56.69	28.68	−1	+7	7.08	23.73	+9	+2	18.50	23.47	+9	−3	29.95	27.62	−2	−6
7	56.97	28.45	+3	+7	7.47	23.65	+9	−1	18.90	23.54	+6	−5	30.29	27.82	−6	−5
8	57.26	28.23	+6	+6	7.85	23.58	+8	−4	19.29	23.61	+3	−6	30.61	28.02	−8	−2
9	57.54	28.01	+8	+3	8.23	23.51	+5	−6	19.68	23.69	0	−7	30.94	28.23	−9	0
10	57.84	27.79	+9	+1	8.62	23.44	+1	−7	20.07	23.77	−4	−6	31.26	28.44	−9	+3
11	58.13	27.58	+8	−2	9.01	23.38	−2	−6	20.46	23.86	−7	−4	31.58	28.65	−8	+6
12	58.43	27.38	+6	−5	9.39	23.33	−5	−5	20.85	23.95	−9	−1	31.89	28.87	−5	+8
13	58.74	27.18	+4	−6	9.79	23.28	−8	−3	21.24	24.04	−10	+2	32.20	29.09	−1	+8
14	59.05	26.98	0	−7	10.18	23.23	−10	0	21.62	24.14	−9	+5	32.51	29.31	+2	+6
15	59.36	26.79	−4	−6	10.57	23.19	−10	+3	22.01	24.24	−7	+7	32.82	29.54	+5	+4
16	59.68	26.60	−7	−5	10.97	23.16	−9	+6	22.39	24.35	−4	+8	33.12	29.77	+6	0
17	60.00	26.42	−10	−2	11.36	23.13	−6	+8	22.78	24.46	0	+8	33.42	30.00	+5	−4
18	60.32	26.24	−11	+1	11.76	23.10	−2	+8	23.15	24.58	+3	+6	33.71	30.24	+3	−6
19	60.65	26.07	−10	+5	12.16	23.09	+2	+7	23.53	24.70	+5	+2	34.00	30.48	−1	−7
20	60.98	25.90	−8	+7	12.55	23.07	+5	+4	23.91	24.83	+6	−2	34.28	30.72	−4	−7
21	61.32	25.73	−4	+8	12.95	23.06	+7	0	24.28	24.96	+5	−5	34.56	30.97	−7	−4
22	61.65	25.57	0	+8	13.35	23.06	+6	−4	24.65	25.09	+2	−7	34.84	31.22	−8	−1
23	62.00	25.41	+4	+6	13.74	23.06	+4	−6	25.03	25.23	−2	−8	35.11	31.47	−6	+3
24	62.34	25.26	+7	+2	14.14	23.07	+1	−8	25.39	25.37	−5	−6	35.38	31.72	−3	+5
25	62.69	25.11	+7	−2	14.54	23.08	−3	−7	25.76	25.52	−7	−3	35.64	31.98	+1	+7
26	63.04	24.97	+6	−5	14.94	23.10	−5	−5	26.12	25.67	−6	+1	35.90	32.24	+5	+7
27	63.40	24.83	+3	−8	15.33	23.12	−6	−1	26.49	25.83	−4	+4	36.16	32.50	+8	+5
28	63.75	24.70	0	−8	15.73	23.14	−5	+2	26.84	25.99	−1	+6	36.41	32.76	+11	+2
29	64.11	24.57	−4	−6	16.13	23.17	−3	+5	27.20	26.15	+3	+7	36.66	33.03	+11	−1
30	64.48	24.45	−6	−4	16.53	23.21	+1	+7	27.55	26.32	+7	+6	36.90	33.30	+9	−4
31	64.84	24.33	−6	0					27.90	26.49	+10	+3	37.14	33.57	+6	−6
32	65.21	24.22	−4	+4					28.25	26.67	+11	+1				

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 15′ 20″	15.312	−15.280	−86° 15′ 30″	15.324	−15.291
30	15.324	−15.291	40	15.335	−15.303

$\alpha_{1940.0} = 16^h\ 38^m\ 6^s.82$ $\delta_{1940.0} = -86°\ 15'\ 47''.07$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

S†) 26 G. Octantis 6.13m

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^h 38^m$	—86° 15′	in $0.^s01$	in $0.''01$	$16^h 38^m$	—86° 15′	in $0.^s01$	in $0.''01$	$16^h 38^m$	—86° 15′	in $0.^s01$	in $0.''01$	$16^h 38^m$	—86° 15′	in $0.^s01$	in $0.''01$
1	37.14	33.57	+6	−6	42.11 / 42.18	42.88 / 43.19	−6 / −8	−4 / −2	41.81	52.37	−8	+6	36.43	59.69	+4	+5
2	37.37	33.85	+3	−7	42.25	43.51	−9	+1	41.71	52.65	−5	+7	36.19	59.87	+6	+2
3	37.60	34.13	−1	−7	42.31	43.83	−8	+4	41.60	52.93	−1	+8	35.94	60.04	+7	−2
4	37.83	34.41	−4	−5	42.37	44.14	−6	+6	41.49	53.21	+3	+7	35.69	60.20	+5	−5
5	38.05	34.69	−7	−3	42.43	44.46	−3	+7	41.38	53.48	+5	+4	35.43	60.36	+3	−7
6	38.27	34.98	−8	−1	42.47	44.77	0	+7	41.26	53.75	+7	0	35.17	60.52	−1	−8
7	38.48	35.26	−9	+2	42.51	45.09	+4	+5	41.13	54.02	+7	−3	34.91	60.67	−4	−6
8	38.69	35.55	−8	+5	42.55	45.40	+6	+2	41.00	54.29	+4	−6	34.65	60.81	−6	−3
9	38.89	35.84	−5	+7	42.58	45.72	+7	−1	40.87	54.55	+1	−7	34.38	60.95	−7	0
10	39.09	36.13	−2	+8	42.60	46.03	+6	−4	40.73	54.82	−3	−7	34.11	61.09	−5	+4
11	39.28	36.43	+1	+7	42.62	46.35	+3	−7	40.58	55.07	−6	−5	33.83	61.22	−2	+6
12	39.46	36.72	+4	+5	42.63	46.66	−1	−7	40.43	55.33	−7	−2	33.55	61.34	+2	+7
13	39.64	37.02	+6	+1	42.64	46.97	−4	−6	40.27	55.58	−7	+2	33.27	61.46	+6	+6
14	39.82	37.32	+6	−2	42.64	47.28	−7	−3	40.11	55.83	−4	+5	32.99	61.58	+8	+4
15	39.99	37.62	+4	−5	42.64	47.59	−8	0	39.94	56.08	−1	+7	32.71	61.69	+10	+1
16	40.16	37.92	+1	−7	42.63	47.90	−6	+3	39.77	56.32	+3	+7	32.42	61.79	+9	−2
17	40.32	38.22	−3	−7	42.61	48.21	−3	+6	39.59	56.56	+6	+5	32.13	61.89	+8	−4
18	40.48	38.53	−6	−5	42.59	48.52	0	+7	39.41	56.79	+9	+3	31.84	61.99	+5	−6
19	40.63	38.83	−8	−2	42.57	48.82	+4	+6	39.23	57.03	+10	0	31.54	62.08	+1	−7
20	40.78	39.14	−7	+1	42.53	49.12	+8	+5	39.04	57.25	+9	−3	31.24	62.16	−2	−6
21	40.92	39.44	−5	+5	42.49	49.43	+10	+2	38.85	57.48	+7	−5	30.94	62.24	−5	−5
22	41.05	39.75	−2	+7	42.45	49.73	+10	−1	38.65	57.70	+3	−7	30.64	62.31	−8	−2
23	41.18	40.06	+2	+7	42.40	50.03	+8	−4	38.45	57.92	0	−7	30.33	62.38	−9	+1
24	41.31	40.37	+6	+6	42.34	50.33	+6	−6	38.24	58.13	−4	−6	30.03	62.44	−9	+3
25	41.43	40.68	+9	+3	42.28	50.63	+2	−7	38.03	58.34	−7	−4	29.72	62.50	−8	+6
26	41.55	41.00	+10	0	42.22	50.92	−2	−7	37.81	58.55	−9	−1	29.41	62.55	−5	+8
27	41.65	41.31	+10	−3	42.14	51.21	−5	−5	37.59	58.75	−9	+2	29.11	62.59	−2	+8
28	41.76	41.62	+8	−5	42.07	51.50	−8	−3	37.37	58.95	−9	+5	28.80	62.63	+2	+7
29	41.85	41.94	+4	−7	41.99	51.79	−9	0	37.14	59.14	−6	+7	28.48	62.66	+5	+4
30	41.94	42.25	+1	−7	41.90	52.08	−9	+3	36.91	59.33	−3	+8	28.17	62.69	+6	0
31	42.03	42.56	−3	−6	41.81	52.37	−8	+6	36.67	59.51	0	+8	27.86	62.71	+6	−3
32	42.11 / 42.18	42.88 / 43.19	−6 / −8	−4 / −2					36.43	59.69	+4	+5	27.55	62.73	+3	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 15′ 30″	15.324	−15.291	−86° 15′ 50″	15.347	−15.314	−86° 16′ 0″	15.358	−15.325
40	15.335	−15.303	60	15.358	−15.325	10	15.369	−15.337

$\alpha_{1940.0} = 16^h\ 38^m\ 6.^s82$ $\delta_{1940.0} = -86°\ 15'\ 47.''07$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

S†) 26 G. Octantis $6^{m}_{.}13$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$16^{h}38^{m}$	— 86° 16′	in 0.01 s	in 0.01″	$16^{h}38^{m}$	— 86° 15′	in 0.01 s	in 0.01″	$16^{h}38^{m}$	— 86° 15′	in 0.01 s	in 0.01″	$16^{h}38^{m}$	— 86° 15′	in 0.01 s	in 0.01″
	s	″			s	″			s	″			s	″		
1	27.55	2.73	+ 3	−6	18.38	60.49	− 6	−6	11.73	53.38	− 3	+6	10.59	44.05	+ 7	+5
2	27.23	2.74	0	−8	18.10	60.33	− 7	−3	11.60	53.10	+ 1	+8	10.66	43.74	+10	+3
3	26.92	2.74	− 3	−7	17.83	60.17	− 7	+1	11.48	52.81	+ 5	+6	10.73	43.42	+11	0
4	26.60	2.74	− 6	−5	17.56	60.00	− 5	+4	11.36	52.51	+ 9	+4	10.81	43.11	+10	−4
5	26.29	2.73	− 7	−1	17.29	59.82	− 1	+6	11.24	52.22	+11	+1	10.89	42.79	+ 8	−6
6	25.97	2.71	− 6	+2	17.03	59.64	+ 3	+7	11.14	51.92	+11	−2	10.98	42.48	+ 4	−8
7	25.66	2.69	− 3	+5	16.77	59.45	+ 7	+5	11.03	51.62	+ 9	−5	11.08	42.17	0	−7
8	25.34	2.67	+ 1	+7	16.51	59.26	+10	+3	10.94	51.32	+ 6	−7	11.19	41.86	− 3	−6
9	25.03	2.64	+ 5	+6	16.26	59.06	+11	0	10.85	51.01	+ 3	−7	11.30	41.55	− 6	−4
10	24.71	2.60	+ 8	+4	16.01	58.86	+10	−3	10.77	50.70	− 1	−7	11.42	41.24	− 7	−1
11	24.39	2.56	+10	+2	15.77	58.65	+ 8	−5	10.69	50.39	− 4	−5	11.55	40.94	− 8	+2
12	24.08	2.51	+10	−1	15.53	58.44	+ 5	−7	10.62	50.08	− 7	−3	11.68	40.64	− 7	+4
13	23.77	2.45	+ 9	−4	15.29	58.23	+ 1	−7	10.56	49.77	− 8	0	11.82	40.34	− 5	+6
14	23.45	2.39	+ 6	−6	15.06	58.01	− 2	−6	10.51	49.46	− 8	+3	11.97	40.04	− 2	+7
15	23.14	2.33	+ 3	−7	14.83	57.79	− 5	−4	10.46	49.15	− 7	+5	12.12	39.74	+ 1	+7
16	22.83	2.26	− 1	−7	14.61	57.56	− 7	−2	10.42	48.83	− 4	+7	12.27	39.44	+ 4	+5
17	22.52	2.18	− 4	−5	14.39	57.32	− 8	+1	10.38	48.51	− 1	+7	12.44	39.15	+ 6	+2
18	22.21	2.10	− 7	−3	14.18	57.09	− 8	+4	10.35	48.20	+ 2	+6	12.61	38.86	+ 6	−1
19	21.90	2.01	− 8	−1	13.97	56.85	− 7	+6	10.33	47.88	+ 4	+4	12.78	38.57	+ 5	−4
20	21.60	1.91	− 9	+2	13.76	56.60	− 4	+7	10.31	47.56	+ 5	+1	12.96	38.28	+ 2	−6
21	21.30	1.81	− 8	+5	13.56	56.35	− 1	+8	10.31	47.24	+ 5	−2	13.15	38.00	− 2	−7
22	21.00	1.70	− 6	+7	13.37	56.10	+ 2	+6	10.30	46.93	+ 3	−5	13.34	37.72	− 5	−6
23	20.70	1.59	− 3	+8	13.18	55.84	+ 4	+3	10.31	46.61	0	−7	13.54	37.44	− 8	−3
24	20.40	1.47	0	+7	13.00	55.58	+ 5	0	10.32	46.29	− 4	−7	13.75	37.17	− 8	0
25	20.11	1.34	+ 3	+5	12.82	55.32	+ 4	−3	10.34	45.97	− 7	−5	13.96	36.90	− 7	+3
26	19.81	1.22	+ 5	+2	12.65	55.05	+ 2	−6	10.36	45.65	− 9	−2	14.17	36.63	− 4	+6
27	19.52	1.08	+ 5	−2	12.48	54.78	− 2	−7	10.40	45.33	− 8	+2	14.40	36.37	0	+7
28	19.23	0.94	+ 4	−5	12.32	54.51	− 5	−6	10.43	45.01	− 6	+5	14.63	36.11	+ 5	+6
29	18.95	0.80	+ 1	−7	12.16	54.23	− 8	−4	10.48	44.69	− 2	+7	14.86	35.85	+ 8	+4
30	18.66	0.65	− 3	−7	12.01	53.95	− 8	−1	*)10.53	44.37	+ 3	+7	15.10	35.60	+10	+1
31	18.38	0.49	− 6	−6	11.87	53.67	− 7	+3	10.59	44.05	+ 7	+5	15.34	35.35	+10	−2
32					11.73	53.38	− 3	+6					15.59	35.11	+ 8	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 15′ 30″	15.324	−15.291	−86° 15′ 50″	15.347	−15.314	−86° 16′ 0″	15.358	−15.325
40	15.335	−15.303	60	15.358	−15.325	10	15.369	−15.337

$\alpha_{1940.0} = 16^{h}\ 38^{m}\ 6^{s}.82$ $\delta_{1940.0} = -86^{\circ}\ 15'\ 47''.07$

*) Tag der doppelten unteren Kulmination: Nov. 30.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sg) χ Octantis $5^{m}.22$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	ℂ Glieder		AR.	Dekl.	ℂ Glieder		AR.	Dekl.	ℂ Glieder		AR.	Dekl.	ℂ Glieder	
		—	in			—	in			—	in			—	in	
	$18^{h}19^{m}$	87° 39′	$0^{s}.01$	$0''.01$	$18^{h}19^{m}$	87° 39′	$0^{s}.01$	$0''.01$	$18^{h}19^{m}$	87° 39′	$0^{s}.01$	$0''.01$	$18^{h}20^{m}$	87° 39′	$0^{s}.01$	$0''.01$
1	$23^{s}.68$	$17''.99$	+2	−8	$33^{s}.59$	$8''.80$	−9	+2	$48^{s}.98$	$3''.20$	−3	+7	$8^{s}.20$	$1''.49$	+14	+4
2	23.86	17.67	−4	−7	34.04	8.55	−6	+5	49.58	3.08	+3	+8	8.82	1.51	+15	+1
3	24.05	17.34	−8	−4	34.50	8.30	−1	+7	50.18	2.95	+8	+8	9.44	1.54	+14	−2
4	24.25	17.01	−10	0	34.97	8.06	+4	+8	50.78	2.83	+12	+6	10.06	1.57	+11	−4
5	24.46	16.69	−9	+3	35.44	7.82	+9	+7	51.39	2.72	+14	+3	10.68	1.61	+6	−6
6	24.68	16.37	−5	+6	35.92	7.58	+12	+5	52.00	2.61	+14	0	11.29	1.65	+1	−7
7	24.92	16.05	0	+8	36.41	7.35	+13	+2	52.61	2.51	+12	−3	11.91	1.69	−5	−6
8	25.16	15.73	+5	+8	36.90	7.12	+13	−1	53.22	2.41	+8	−5	12.52	1.74	−10	−5
9	25.41	15.41	+9	+6	37.39	6.90	+10	−4	53.83	2.31	+4	−6	13.13	1.79	−13	−3
10	25.67	15.10	+12	+4	37.89	6.68	+6	−6	54.45	2.23	−2	−7	13.74	1.85	−15	0
11	25.93	14.78	+13	+1	38.40	6.47	+1	−7	55.06	2.14	−7	−6	14.34	1.92	−14	+3
12	26.21	14.47	+12	−2	38.91	6.26	−4	−7	55.68	2.06	−12	−5	14.95	1.98	−12	+5
13	26.50	14.16	+9	−4	39.43	6.05	−10	−6	56.30	1.99	−15	−2	15.55	2.05	−7	+7
14	26.80	13.86	+4	−6	39.96	5.85	−14	−4	56.93	1.92	−16	+1	16.15	2.13	−1	+7
15	27.10	13.55	−1	−7	40.49	5.65	−17	−1	57.55	1.86	−15	+4	16.75	2.21	+4	+5
16	27.42	13.25	−7	−7	41.03	5.46	−16	+2	58.18	1.80	−11	+6	17.34	2.30	+8	+2
17	27.74	12.95	−12	−5	41.57	5.27	−14	+5	58.80	1.74	−5	+7	17.93	2.39	+10	−2
18	28.07	12.65	−16	−3	42.12	5.08	−8	+7	59.43	1.69	+1	+6	18.52	2.49	+8	−5
19	28.42	12.36	−17	+1	42.67	4.90	−2	+7	60.05	1.65	+7	+4	19.10	2.59	+4	−7
20	28.77	12.07	−15	+4	43.22	4.72	+4	+6	60.68	1.61	+10	0	19.68	2.69	−2	−8
21	29.12	11.78	−11	+6	43.78	4.55	+9	+3	61.31	1.57	+10	−3	20.26	2.80	−7	−6
22	29.49	11.49	−5	+7	44.34	4.38	+11	−1	61.94	1.54	+7	−6	20.83	2.91	−10	−3
23	29.87	11.21	+2	+7	44.91	4.22	+10	−5	62.56	1.52	+2	−8	21.40	3.03	−11	+1
24	30.25	10.93	+8	+4	45.48	4.06	+7	−7	63.19	1.50	−3	−7	21.97	3.15	−8	+4
25	30.64	10.65	+12	+1	46.06	3.91	+1	−8	63.82	1.48	−7	−5	22.53	3.28	−3	+7
26	31.04	10.38	+12	−3	46.63	3.76	−4	−6	64.45	1.47	−10	−1	23.09	3.41	+3	+8
27	31.45	10.10	+10	−6	47.22	3.61	−8	−3	65.08	1.46	−9	+2	23.64	3.54	+9	+8
28	31.86	9.84	+5	−8	47.80	3.47	−9	0	65.70	1.45	−5	+6	24.19	3.68	+13	+5
29	32.28	9.57	−1	−7	48.39	3.34	−7	+4	66.33	1.45	0	+8	24.73	3.82	+16	+3
30	32.71	9.31	−6	−5	48.98	3.20	−3	+7	66.95	1.46	+6	+8	25.27	3.97	+15	0
31	33.15	9.05	−9	−2					67.58	1.47	+11	+7	25.80	4.12	+13	−3
32	33.59	8.80	−9	+2					68.20	1.49	+14	+4				

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 0″	24.388	−24.368	−87° 39′ 10″	24.417	−24.396
10	24.417	−24.396	20	24.446	−24.425

$\alpha_{1940.0} = 18^{h}\ 19^{m}\ 52^{s}.45$ $\delta_{1940.0} = -87^{\circ}\ 39'\ 28''.58$

8g) χ Octantis $5^m.22$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$18^h 20^m$	87° 39′	0.01 s	0.01″	$18^h 20^m$	87° 39′	0.01 s	0.01″	$18^h 20^m$	87° 39′	0.01 s	0.01″	$18^h 20^m$	87° 39′	0.01 s	0.01″
1	25.80	4.12	+13	−3	39.49	10.64	−6	−6	45.76	19.55	−14	+3	43.21	28.61	+2	+6
2	26.33	4.28	+8	−5	39.82	10.90	−10	−5	45.82	19.85	−11	+5	42.98	28.87	+8	+4
3	26.86	4.44	+3	−7	40.14	11.16	−13	−2	45.87	20.15	−6	+7	42.75	29.14	+11	0
4	27.38	4.60	−2	−7	40.45	11.43	−14	+1	45.90	20.46	−1	+7	42.50	29.39	+11	−3
5	27.89	4.77	−8	−6	40.76	11.69	−13	+4	45.93	20.76	+5	+5	42.25	29.65	+8	−6
6	28.40	4.94	−12	−4	41.06	11.97	−9	+6	45.95	21.07	+10	+3	41.99	29.90	+3	−7
7	28.90	5.12	−14	−1	41.35	12.24	−4	+7	45.96	21.37	+11	−1	41.72	30.15	−2	−7
8	29.40	5.30	−14	+2	41.63	12.51	+2	+6	45.97	21.67	+10	−4	41.44	30.40	−7	−5
9	29.89	5.48	−12	+4	41.90	12.79	+7	+4	45.96	21.97	+6	−7	41.16	30.65	−10	−2
10	30.38	5.67	−8	+6	42.17	13.07	+10	+1	45.94	22.28	+1	−8	40.86	30.89	−9	+2
11	30.86	5.86	−2	+7	42.42	13.34	+11	−2	45.91	22.58	−5	−7	40.56	31.13	−6	+5
12	31.34	6.05	+3	+6	42.67	13.63	+8	−5	45.88	22.88	−9	−4	40.25	31.36	−1	+7
13	31.81	6.25	+8	+3	42.91	13.91	+3	−7	45.83	23.18	−11	0	39.93	31.60	+4	+8
14	32.28	6.45	+10	0	43.14	14.20	−3	−7	45.78	23.48	−9	+3	39.61	31.82	+9	+7
15	32.74	6.65	+9	−3	43.36	14.49	−8	−6	45.71	23.78	−6	+6	39.27	32.05	+13	+4
16	33.19	6.86	+6	−6	43.58	14.77	−11	−3	45.64	24.07	0	+8	38.93	32.27	+14	+1
17	33.64	7.07	+1	−8	43.78	15.06	−11	+1	45.55	24.37	+6	+7	38.59	32.49	+13	−2
18	34.08	7.29	−5	−7	43.98	15.36	−8	+4	45.46	24.66	+11	+6	38.23	32.70	+11	−4
19	34.51	7.51	−9	−5	44.17	15.65	−4	+7	45.36	24.96	+13	+3	37.87	32.91	+6	−6
20	34.93	7.73	−12	−1	44.34	15.94	+2	+8	45.25	25.25	+14	0	37.50	33.12	+1	−7
21	35.35	7.95	−10	+3	44.51	16.24	+8	+7	45.13	25.54	+13	−3	37.12	33.32	−5	−6
22	35.77	8.18	−6	+6	44.67	16.53	+12	+5	45.00	25.83	+9	−5	36.74	33.52	−10	−5
23	36.17	8.41	−1	+8	44.82	16.83	+15	+2	44.86	26.12	+4	−7	36.35	33.71	−13	−3
24	36.57	8.65	+5	+8	44.96	17.13	+14	−1	44.71	26.40	−1	−7	35.95	33.89	−15	0
25	36.96	8.89	+11	+6	45.09	17.43	+12	−4	44.56	26.68	−7	−6	35.55	34.08	−15	+3
26	37.34	9.13	+14	+4	45.22	17.73	+7	−6	44.39	26.96	−12	−4	35.14	34.26	−12	+5
27	37.72	9.37	+16	+1	45.33 45.43	18.03 18.34	+2 −4	−7 −7	44.22	27.24	−15	−2	34.73	34.43	−7	+7
28	38.09	9.62	+14	−2	45.53	18.64	−9	−5	44.04	27.52	−15	+1	34.31	34.60	−1	+7
29	38.45	9.87	+11	−5	45.62	18.94	−13	−3	43.84	27.80	−14	+4	33.89	34.76	+4	+5
30	38.80	10.12	+6	−7	45.69	19.24	−15	0	43.64	28.07	−10	+6	33.46	34.92	+8	+2
31	39.15	10.38	0	−7	45.76	19.55	−14	+3	43.43	28.34	−4	+7	33.02	35.08	+10	−2
32	39.49	10.64	−6	−6					43.21	28.61	+2	+6	32.58	35.23	+9	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 0″	24.388	−24.368	−87° 39′ 20″	24.446	−24.425	−87° 39′ 30″	24.475	−24.454
10	24.417	−24.396	30	24.475	−24.454	40	24.504	−24.483

$\alpha_{1940.0} = 18^h\ 19^m\ 52^s.45$ $\delta_{1940.0} = -87°\ 39'\ 28''.58$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sg) χ Octantis $5^{m}.22$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 20^m$	— 87° 39′	in $0^s.01$	in $0''.01$	$18^h 20^m$	— 87° 39′	in $0^s.01$	in $0''.01$	$18^h 19^m$	— 87° 39′	in $0^s.01$	in $0''.01$	$18^h 19^m$	— 87° 39′	in $0^s.01$	in $0''.01$
1	$32^s.58$	$35''.23$	+9	−5	$17^s.75$	$37''.13$	−4	−7	$63^s.02$	$33''.53$	−9	+4	$54^s.58$	$25''.62$	+6	+8
2	32.13	35.37	+5	−7	17.24	37.10	−9	−5	62.63	33.33	−3	+7	54.44	25.31	+12	+6
3	31.68	35.51	0	−8	16.73	37.06	−11	−2	62.24	33.12	+3	+8	54.31	24.99	+16	+3
4	31.22	35.64	−5	−6	16.21	37.02	−9	+2	61.85	32.90	+10	+7	54.20	24.68	+17	0
5	30.76	35.77	−9	−3	15.70	36.98	−5	+6	61.47	32.69	+15	+5	54.09	24.36	+15	−3
6	30.30	35.89	−10	0	15.19	36.93	+1	+8	61.10	32.46	+17	+2	53.99	24.04	+11	−6
7	29.83	36.01	−7	+4	14.68	36.87	+7	+8	60.74	32.23	+16	−1	53.90	23.72	+5	−7
8	29.36	36.12	−3	+7	14.17	36.81	+12	+6	60.38	32.00	+13	−4	53.83	23.40	0	−7
9	28.88	36.23	+3	+8	13.67	36.74	+16	+4	60.03	31.76	+8	−6	53.76	23.07	−6	−6
10	28.40	36.33	+9	+7	13.16	36.66	+16	+1	59.69	31.52	+3	−7	53.70	22.74	−10	−4
11	27.91	36.43	+13	+5	12.66	36.58	+14	−2	59.36	31.28	−3	−6	53.66	22.41	−12	−1
12	27.43	36.52	+15	+3	12.16	36.49	+11	−5	59.03	31.03	−8	−5	53.63	22.08	−13	+2
13	26.93	36.60	+15	0	11.66	36.39	+6	−6	58.72	30.78	−11	−3	53.60	21.75	−11	+4
14	26.44	36.68	+12	−3	11.17	36.29	0	−7	58.41	30.52	−13	0	53.59	21.42	−8	+6
15	25.94	36.75	+8	−5	10.68	36.19	−5	−6	58.11	30.26	−13	+3	53.59	21.09	−3	+7
16	25.44	36.82	+3	−7	10.19	36.08	−9	−4	57.82	29.99	−10	+5	53.60	20.76	+2	+6
17	24.94	36.88	−2	−6	9.71	35.96	−12	−2	57.54	29.72	−7	+6	53.62	20.43	+6	+4
18	24.44	36.94	−7	−5	9.23	35.84	−14	+1	57.27	29.45	−2	+7	53.65	20.10	+9	+1
19	23.93	36.99	−11	−4	8.75	35.71	−13	+4	57.00	29.17	+3	+5	53.69	19.77	+9	−2
20	23.42	37.03	−14	−1	8.28	35.57	−10	+6	56.75	28.89	+7	+3	53.74	19.44	+7	−5
21	22.91	37.07	−15	+2	7.81	35.43	−6	+7	56.50	28.61	+9	0	53.80	19.11	+2	−7
22	22.39	37.10	−13	+4	7.35	35.28	−1	+6	56.27	28.32	+8	−3	53.87	18.77	−4	−7
23	21.88	37.13	−9	+6	6.89	35.13	+4	+5	56.04	28.03	+4	−6	53.96	18.44	−9	−6
24	21.36	37.15	−4	+7	6.44	34.97	+8	+2	55.83	27.74	−1	−8	54.05	18.11	−12	−3
25	20.85	37.16	+1	+6	6.00	34.81	+8	−2	55.62	27.44	−7	−7	54.16	17.78	−12	+1
26	20.33	37.17	+6	+4	5.55	34.64	+6	−5	55.42	27.15	−11	−5	*)54.27	17.45	−9	+4
27	19.82	37.18	+9	0	5.12	34.47	+2	−7	55.23	26.85	−13	−1	54.40	17.12	−4	+7
28	19.30	37.17	+9	−3	4.69	34.29	−3	−8	55.05	26.55	−11	+2	54.53	16.79	+2	+8
29	18.79	37.16	+6	−6	4.26	34.11	−8	−6	54.88	26.24	−7	+6	54.68	16.46	+8	+7
30	18.27	37.15	+1	−8	3.84	33.92	−11	−3	54.72	25.93	−1	+8	54.84	16.13	+13	+5
31	17.75	37.13	−4	−7	3.43	33.73	−11	0	54.58	25.62	+6	+8	55.00	15.81	+16	+2
32					3.02	33.53	−9	+4					55.18	15.48	+15	−2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 10″	24.417	−24.396	−87° 39′ 20″	24.446	−24.425	−87° 39′ 30″	24.475	−24.454
20	24.446	−24.425	30	24.475	−24.454	40	24.504	−24.483

$\alpha_{1940.0} = 18^h\ 19^m\ 52^s.45$ $\delta_{1940.0} = -87°\ 39'\ 28''.58$

*) Tag der doppelten unteren Kulmination: Dez. 26.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
		—	in			—	in	
	20h 0m	89° 9′	0.01 s	0.01 ″	20h 0m	89° 9′	0.01 s	0.01 ″
1	10.85	63.14	+20	−6	17.45	52.21	−25	0
2	10.64	62.80	+3	−7	18.09	51.86	−24	+3
3	10.47	62.46	−12	−5	18.76	51.52	−17	+6
4	10.32	62.11	−23	−2	19.45	51.18	−6	+8
5	10.20	61.76	−27	+1	20.17	50.84	+8	+8
6	10.11	61.41	−25	+4	20.91	50.50	+20	+7
7	10.04	61.05	−16	+7	21.67	50.17	+29	+5
8	10.01	60.70	−2	+8	22.46	49.83	+33	+2
9	10.00	60.34	+11	+8	23.27	49.50	+32	−1
10	10.02	59.99	+23	+6	24.11	49.17	+26	−4
11	10.07	59.63	+30	+4	24.96	48.84	+16	−6
12	10.15	59.28	+33	+1	25.84	48.52	+2	−7
13	10.25	58.92	+30	−2	26.75	48.19	−13	−8
14	10.39	58.57	+22	−5	27.67	47.87	−28	−7
15	10.55	58.21	+11	−7	28.62	47.55	−39	−5
16	10.74	57.85	−4	−8	29.59	47.24	−45	−2
17	10.95	57.50	−20	−7	30.57	46.92	−43	+1
18	11.20	57.14	−34	−6	31.58	46.61	−33	+4
19	11.47	56.79	−43	−3	32.61	46.30	−18	+6
20	11.77	56.43	−44	0	33.66	45.99	+1	+6
21	*)12.10	56.07	−39	+3	34.73	45.69	+19	+4
22	12.45	55.72	−25	+5	35.82	45.39	+31	+1
23	12.83	55.36	−6	+7	36.93	45.09	+34	−2
24	13.24	55.01	+13	+6	38.06	44.80	+30	−5
25	13.67	54.65	+28	+3	39.21	44.51	+17	−7
26	14.13	54.30	+37	0	40.37	44.22	+2	−7
27	14.62	53.94	+36	−3	41.56	43.94	−13	−5
28	15.13	53.59	+27	−6	42.76	43.66	−23	−2
29	15.67	53.25	+12	−7	43.98	43.38	−25	+2
30	16.24	52.90	−4	−6	45.22	43.10	−19	+5
31	16.83	52.55	−18	−3				
32	17.45	52.21	−25	0				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		—	in			—	in	
	20h 0m	89° 9′	0.01 s	0.01 ″	20h 1m	89° 9′	0.01 s	0.01 ″
1	45.22	43.10	−19	+5	30.28	36.53	+27	+7
2	46.47	42.83	−9	+8	31.89	36.39	+35	+5
3	47.74	42.56	+5	+9	33.51	36.25	+38	+2
4	49.03	42.30	+18	+8	35.13	36.12	+34	−1
5	50.33	42.04	+29	+6	36.76	35.99	+26	−4
6	51.65	41.78	+34	+3	38.39	35.87	+14	−6
7	52.98	41.53	+35	0	40.03	35.75	+1	−7
8	54.33	41.28	+30	−3	41.67	35.64	−13	−7
9	55.69	41.03	+21	−5	43.32	35.53	−27	−6
10	57.07	40.79	+8	−7	44.97	35.43	−36	−4
11	58.46	40.55	−6	−7	46.62	35.33	−40	−1
12	59.87	40.32	−20	−7	48.28	35.23	−39	+2
13	61.29	40.09	−34	−5	49.93	35.14	−29	+4
14	62.72	39.87	−41	−3	51.59	35.05	−15	+6
15	64.16	39.65	−43	0	53.25	34.97	+1	+6
16	65.61	39.43	−38	+3	54.91	34.90	+17	+4
17	67.08	39.22	−26	+5	56.58	34.83	+27	+1
18	68.56	39.01	−9	+6	58.24	34.76	+29	−3
19	70.05	38.80	+9	+5	59.90	34.70	+23	−6
20	71.55	38.60	+23	+3	61.56	34.65	+10	−7
21	73.06	38.40	+31	−1	63.23	34.60	−5	−7
22	74.58	38.21	+30	−4	64.89	34.55	−19	−5
23	76.12	38.02	+21	−7	66.56	34.51	−27	−2
24	77.66	37.84	+6	−7	68.22	34.47	−27	+2
25	79.21	37.66	−9	−6	69.88	34.44	−21	+5
26	80.77	37.49	−21	−3	71.53	34.42	−8	+8
27	82.33	37.32	−27	0	73.19	34.40	+8	+9
28	83.91	37.15	−23	+4	74.84	34.38	+22	+8
29	85.49	36.99	−14	+7	76.49	34.37	+33	+6
30	87.08	36.83	0	+9	78.13	34.37	+38	+3
31	88.68	36.68	+15	+9	79.77	34.37	+38	0
32	90.28	36.53	+27	+7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 9′ 30″	68.077	−68.069	−89° 9′ 50″	68.529	−68.522	−89° 10′ 0″	68.757	−68.750
40	68.302	−68.295	60	68.757	−68.750	10	68.987	−68.980

$\alpha_{1940.0} = 20^h\ 1^m\ 45^s.73$ $\delta_{1940.0} = -89°\ 10'\ 5''.09$

*) Tag der doppelten unteren Kulmination: Jan. 21.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$20^h 2^m$	89° 9′	0.01 s	0.01″	$20^h 3^m$	89° 9′	0.01 s	0.01″	$20^h 3^m$	89° 9′	0.01 s	0.01″	$20^h 3^m$	89° 9′	0.01 s	0.01″
	s	″			s	″			s	″			s	″		
1	19.77	34.37	+38	0	6.91	36.76	− 2	−7	39.40	43.03	−36	−4	51.58	52.29	− 6	+6
2	21.41	34.37	+31	−3	8.25	36.91	−17	−7	40.17	43.29	−40	−1	51.53	52.59	+12	+5
3	23.04	34.38	+20	−5	9.58	37.07	−29	−5	40.91	43.55	−37	+2	51.45	52.90	+26	+3
4	24.67	34.39	+ 6	−7	10.89	37.23	−36	−3	41.63	43.82	−28	+5	51.35	53.20	+33	0
5	26.29	34.41	− 8	−7	12.18	37.39	−38	0	42.33	44.09	−13	+6	51.22	53.51	+32	−3
6	27.91	34.43	−21	−6	13.46	37.56	−33	+3	43.00	44.36	+ 3	+6	51.06	53.81	+23	−6
7	29.52	34.46	−32	−4	14.72	37.73	−22	+5	43.65	44.63	+19	+5	50.87	54.11	+ 8	−7
8	31.13	34.49	−38	−1	15.97	37.91	− 6	+6	44.27	44.91	+30	+2	50.66	54.41	− 8	−6
9	32.73	34.53	−37	+1	17.20	38.09	+10	+6	44.87	45.19	+33	−2	50.42	54.71	−20	−4
10	34.32	34.58	−31	+4	18.41	38.28	+23	+3	45.44	45.47	+28	−5	50.15	55.01	−26	0
11	35.91	34.63	−18	+6	19.61	38.47	+30	0	45.99	45.75	+16	−7	49.86	55.31	−25	+3
12	37.49	34.68	− 3	+6	20.78	38.66	+29	−3	46.52	46.03	0	−7	49.54	55.61	−16	+6
13	39.06	34.74	+13	+5	21.94	38.86	+21	−6	47.02	46.32	−15	−6	49.19	55.91	− 4	+8
14	40.62	34.80	+24	+2	23.08	39.06	+ 7	−7	47.50	46.61	−26	−3	48.82	56.20	+10	+8
15	42.17	34.87	+29	−1	24.20	39.27	− 8	−7	47.95	46.89	−29	+1	48.42	56.50	+24	+7
16	43.72	34.94	+25	−4	25.31	39.48	−22	−5	48.37	47.18	−25	+4	47.99	56.79	+32	+5
17	45.25	35.02	+15	−7	26.39	39.69	−29	−2	48.77	47.48	−14	+7	47.54	57.08	+36	+2
18	46.78	35.10	0	−8	27.45	39.91	−29	+2	49.14	47.77	0	+8	47.06	57.37	+33	−1
19	48.29	35.19	−15	−7	28.49	40.13	−22	+5	49.49	48.06	+14	+8	46.56	57.66	+26	−4
20	49.80	35.28	−26	−4	29.52	40.35	− 9	+8	49.81	48.36	+27	+6	46.03	57.95	+15	−6
21	51.29	35.38	−31	0	30.52	40.58	+ 6	+8	50.11	48.66	+34	+3	45.47	58.23	+ 1	−7
22	52.77	35.48	−27	+4	31.51	40.81	+21	+7	50.38	48.96	+36	0	44.89	58.51	−14	−7
23	54.24	35.59	−17	+7	32.47	41.05	+32	+5	50.62 50.83	49.26 49.56	+32 +22	−3 −5	44.28	58.79	−28	−6
24	55.70	35.70	− 1	+8	33.41	41.29	+36	+3	51.02	49.86	+ 9	−6	43.65	59.06	−38	−4
25	57.15	35.82	+14	+8	34.34	41.53	+36	−1	51.18	50.17	− 6	−7	43.00	59.34	−42	−1
26	58.58	35.94	+27	+7	35.24	41.77	+29	−4	51.32	50.47	−20	−7	42.32	59.61	−40	+2
27	60.00	36.07	+36	+4	36.11	42.01	+18	−6	51.43	50.77	−33	−5	41.61	59.88	−32	+5
28	61.41	36.20	+39	+1	36.97	42.26	+ 3	−7	51.51	51.07	−40	−2	40.88	60.14	−16	+6
29	62.81	36.33	+35	−2	37.80	42.51	−12	−7	51.57	51.38	−41	+1	40.13	60.40	+ 1	+6
30	64.19	36.47	+26	−5	38.61	42.77	−25	−6	51.60	51.68	−36	+4	39.35	60.66	+17	+4
31	65.56	36.61	+13	−6	39.40	43.03	−36	−4	51.60	51.99	−23	+6	38.55	60.92	+28	+1
32	66.91	36.76	− 2	−7					51.58	52.29	− 6	+6	37.72	61.18	+31	−2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 9′ 30″	68.077	−68.069	−89° 9′ 50″	68.529	−68.522	−89° 10′ 0″	68.757	−68.750
40	68.302	−68.295	60	68.757	−68.750	10	68.987	−68.980

$\alpha_{1940.0} = 20^h\ 1^m\ 45^s.73$ $\delta_{1940.0} = -89°\ 10'\ 5''.09$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$20^h 3^m$	89° 10′	$0^s.01$	0″.01	$20^h 2^m$	89° 10′	$0^s.01$	0″.01	$20^h 1^m$	89° 10′	$0^s.01$	0″.01	$20^h 1^m$	89° 9′	$0^s.01$	0″.01
1	37.72	1.18	+31	−2	63.76	6.86	+3	−8	78.82	7.50	−29	+2	41.08	62.55	+1	+8
2	36.88	1.43	+26	−5	62.39	6.97	−12	−6	77.38	7.42	−20	+5	40.09	62.30	+18	+8
3	36.01	1.68	+14	−7	61.00	7.08	−23	−4	75.95	7.33	−6	+8	39.13	62.05	+32	+7
4	35.11	1.92	−1	−7	59.61	7.18	−27	0	74.53	7.24	+10	+9	38.18	61.79	+41	+4
5	34.20	2.16	−15	−5	58.21	7.27	−23	+4	73.12	7.14	+27	+8	37.26	61.53	+41	+1
6	33.26	2.40	−24	−2	56.80	7.36	−13	+7	71.71	7.04	+38	+6	36.36	61.27	+37	−3
7	32.31	2.63	−25	+2	55.38	7.44	+3	+9	70.32	6.93	+42	+3	35.48	61.00	+25	−5
8	31.33	2.86	−19	+5	53.96	7.52	+18	+9	68.93	6.81	+40	−1	34.63	60.73	+11	−6
9	30.32	3.08	−7	+8	52.52	7.59	+31	+7	67.56	6.69	+31	−3	33.80	60.45	−4	−6
10	29.30	3.30	+8	+9	51.08	7.65	+39	+4	66.20	6.56	+19	−5	32.99	60.17	−17	−6
11	28.26	3.52	+22	+8	49.63	7.71	+40	+1	64.85	6.42	+5	−6	32.21	59.89	−28	−4
12	27.20	3.73	+32	+6	48.18	7.76	+35	−2	63.51	6.28	−9	−6	31.46	59.60	−34	−1
13	26.11	3.94	+37	+3	46.72	7.81	+25	−4	62.18	6.13	−22	−5	30.73	59.31	−35	+1
14	25.01	4.14	+36	0	45.26	7.85	+13	−6	60.87	5.98	−31	−3	30.03	59.01	−30	+4
15	23.89	4.34	+30	−3	43.79	7.88	−2	−6	59.57	5.82	−36	0	29.35	58.71	−20	+6
16	22.75	4.53	+19	−5	42.32	7.91	−15	−6	58.29	5.66	−35	+2	28.70	58.41	−6	+6
17	21.60	4.72	+7	−6	40.84	7.93	−27	−5	57.02	5.49	−28	+4	28.07	58.10	+9	+5
18	20.42	4.91	−8	−7	39.37	7.95	−35	−3	55.77	5.31	−17	+6	27.47	57.79	+21	+3
19	19.23	5.09	−21	−6	37.89	7.96	−39	0	54.53	5.13	−3	+6	26.90	57.48	+27	0
20	18.02	5.27	−33	−4	36.41	7.96	−36	+3	53.31	4.95	+11	+4	26.35	57.16	+26	−3
21	16.80	5.44	−40	−2	34.93	7.96	−28	+5	52.10	4.76	+22	+2	25.83	56.84	+18	−6
22	15.56	5.61	−40	+1	33.46	7.95	−14	+6	50.92	4.56	+26	−1	25.33	56.52	+5	−8
23	14.31	5.77	−35	+3	31.98	7.93	+2	+5	49.75	4.36	+22	−5	24.87	56.20	−11	−7
24	13.04	5.92	−24	+5	30.51	7.91	+15	+3	48.60	4.15	+12	−7	24.43	55.87	−24	−5
25	11.75	6.07	−9	+6	29.03	7.88	+24	0	47.47	3.94	−3	−8	24.02	55.54	−32	−2
26	10.45	6.22	+8	+4	27.56	7.84	+26	−3	46.35	3.72	−17	−7	23.63	55.21	−31	+2
27	9.13	6.36	+21	+2	26.09	7.80	+19	−6	45.26	3.50	−29	−4	23.28	54.88	−23	+5
28	7.81	6.49	+28	−1	24.63	7.75	+7	−8	44.18	3.27	−32	0	22.95	54.55	−9	+8
29	6.47	6.62	+26	−4	23.17	7.70	−8	−8	43.13	3.03	−28	+4	22.65	54.21	+8	+8
30	5.12	6.74	+17	−7	21.71	7.64	−22	−6	42.10	2.79	−17	+7	22.38	53.87	+24	+7
31	3.76	6.86	+3	−8	20.26	7.57	−29	−2	41.08	2.55	+1	+8	22.13	53.54	+35	+5
32					18.82	7.50	−29	+2					21.92	53.20	+40	+2

δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 9′ 50″	68.529	−68.522	−89° 10′ 0″	68.757	−68.750
60	68.757	−68.750	10	68.987	−68.980

$\alpha_{1940.0} = 20^h\ 1^m\ 45^s.73$ $\delta_{1940.0} = -89°\ 10'\ 5''.09$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Si) β Octantis $4^{m}.34$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$22^h 39^m$	81° 41′	$0.^s01$	$0.''01$	$22^h 39^m$	81° 41′	$0.^s01$	$0.''01$	$22^h 39^m$	81° 41′	$0.^s01$	$0.''01$	$22^h 39^m$	81° 41′	$0.^s01$	$0.''01$
1	55.61	61.28	+3	−2	53.11	52.61	−3	−3	52.76	42.15	−3	+2	54.48	30.95	+1	+9
2	55.50	61.06	+2	−5	53.07	52.27	−3	0	*)52.78	41.77	−2	+5	54.57	30.62	+3	+8
3	55.39	60.84	0	−6	53.03	51.93	−3	+3	52.81	41.40	−1	+7	54.66	30.28	+4	+6
4	55.28	60.62	−2	−5	52.99	51.59	−2	+6	52.83	41.02	0	+9	54.75	29.95	+4	+3
5	55.18	60.39	−3	−3	52.95	51.25	−1	+7	52.86	40.65	+2	+8	54.84	29.62	+4	0
6	55.08	60.15	−3	0	52.91	50.90	+1	+8	52.89	40.28	+3	+7	54.94	29.30	+3	−3
7	54.98	59.91	−3	+3	52.88	50.55	+2	+8	52.93	39.90	+4	+5	55.04	28.98	+1	−5
8	54.88	59.67	−2	+6	52.85	50.20	+3	+6	52.96	39.53	+4	+2	55.14	28.66	0	−7
9	54.78	59.42	0	+7	52.82	49.85	+3	+3	53.00	39.16	+3	−1	55.24	28.34	−2	−8
10	54.69	59.17	+1	+8	52.79	49.49	+4	0	53.04	38.79	+2	−4	55.34	28.03	−3	−8
11	54.59	58.91	+2	+7	52.77	49.14	+3	−3	53.08	38.42	+1	−7	55.44	27.72	−4	−6
12	54.50	58.65	+3	+5	52.74	48.78	+2	−5	53.13	38.05	−1	−8	55.55	27.41	−4	−3
13	54.41	58.38	+4	+2	52.73	48.42	0	−8	53.17	37.68	−2	−8	55.66	27.10	−4	0
14	54.33	58.11	+3	−1	52.71	48.06	−2	−9	53.22	37.32	−4	−8	55.77	26.80	−3	+3
15	54.24	57.84	+2	−4	52.69	47.70	−3	−9	53.27	36.95	−4	−5	55.88	26.50	−1	+5
16	54.16	57.56	+1	−7	52.68	47.33	−4	−7	53.33	36.59	−5	−2	55.99	26.21	+1	+5
17	54.08	57.28	−1	−9	52.67	46.97	−5	−4	53.38	36.22	−4	+1	56.11	25.91	+3	+4
18	54.00	56.99	−2	−9	52.66	46.60	−4	−1	53.44	35.86	−2	+4	56.22	25.63	+4	+1
19	53.92	56.70	−4	−8	52.66	46.23	−3	+3	53.50	35.50	0	+5	56.34	25.34	+4	−2
20	53.85	56.40	−5	−6	52.65	45.87	−1	+5	53.57	35.14	+2	+5	56.46	25.06	+3	−5
21	53.77	56.11	−5	−2	52.65	45.50	+1	+6	53.63	34.78	+3	+3	56.58	24.78	+1	−6
22	53.70	55.80	−4	+1	52.66	45.12	+3	+5	53.70	34.43	+4	+1	56.71	24.51	−1	−7
23	53.63	55.50	−2	+4	52.66	44.75	+4	+3	53.77	34.07	+3	−2	56.83	24.24	−2	−5
24	53.57	55.19	0	+6	52.67	44.38	+4	0	53.84	33.71	+2	−5	56.96	23.97	−3	−2
25	53.50	54.88	+2	+6	52.68	44.01	+3	−3	53.91	33.36	0	−6	57.09	23.71	−3	+2
26	53.44	54.56	+4	+5	52.69	43.64	+2	−5	53.99	33.01	−2	−5	57.22	23.45	−2	+5
27	53.38	54.24	+4	+2	52.71	43.26	0	−6	54.06	32.66	−3	−3	57.35	23.19	−1	+8
28	53.32	53.92	+4	−1	52.72	42.89	−2	−4	54.14	32.32	−3	0	57.48	22.94	+1	+9
29	53.26	53.60	+3	−4	52.74	42.52	−3	−2	54.22	31.97	−3	+4	57.62	22.69	+2	+9
30	53.21	53.27	+1	−5	52.76	42.15	−3	+2	54.31	31.63	−2	+7	57.75	22.45	+3	+7
31	53.16	52.94	−1	−5					54.39	31.29	0	+9	57.89	22.21	+4	+5
32	53.11	52.61	−3	−3					54.48	30.95	+1	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 41′ 20″	6.918	−6.845	−81° 41′ 40″	6.923	−6.850	−81° 42′ 0″	6.927	−6.855
30	6.920	−6.848	50	6.925	−6.852	10	6.930	−6.857

$\alpha_{1940.0} = 22^h\ 40^m\ 3.^s05$ $\delta_{1940.0} = -81°\ 41'\ 49.''51$

*) Tag der doppelten unteren Kulmination: März 2.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Si) β Octantis $4^{m}34$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$22^h 39^m$	81° 41′	0.01 s	0.01″	$22^h 40^m$	81° 41′	0.01 s	0.01″	$22^h 40^m$	81° 41′	0.01 s	0.01″	$22^h 40^m$	81° 41′	0.01 s	0.01″
1	57.89	22.21	+4	+5	2.53	17.12	+1	−6	7.19	16.98	−3	−8	11.01	21.72	−3	+1
2	58.02	21.98	+4	+1	2.69	17.04	0	−7	7.34	17.06	−4	−6	11.11	21.95	−2	+4
3	58.16	21.75	+3	−2	2.85	16.96	−2	−8	7.48	17.14	−4	−3	11.20	22.18	0	+6
4	58.30	21.52	+2	−5	3.01	16.89	−3	−7	7.62	17.23	−4	0	11.29	22.41	+2	+6
5	58.44	21.30	+1	−7	3.17	16.82	−4	−5	7.76	17.33	−3	+3	11.38	22.65	+3	+4
6	58.58	21.08	−1	−8	3.33	16.76	−4	−2	7.90	17.43	−1	+5	11.47	22.88	+4	+1
7	58.72	20.87	−3	−8	3.49	16.71	−3	+1	8.04	17.53	+1	+6	11.55	23.13	+4	−2
8	58.87	20.66	−4	−6	3.65	16.66	−2	+4	8.18	17.64	+3	+5	11.63	23.37	+2	−5
9	59.01	20.46	−4	−4	3.81	16.61	0	+6	8.32	17.76	+4	+3	11.71	23.62	0	−6
10	59.16	20.26	−4	−1	3.97	16.57	+2	+6	8.45	17.88	+4	0	11.78	23.87	−1	−6
11	59.30	20.07	−3	+2	4.12	16.54	+3	+4	8.58	18.00	+3	−3	11.85	24.13	−3	−4
12	59.45	19.88	−1	+4	4.28	16.51	+4	+1	8.72	18.13	+1	−6	11.92	24.39	−3	−1
13	59.60	19.69	0	+5	4.44	16.48	+4	−2	8.85	18.27	0	−6	11.99	24.65	−3	+3
14	59.75	19.51	+2	+5	4.60	16.46	+2	−5	8.98	18.41	−2	−5	12.05	24.91	−2	+6
15	59.90	19.33	+3	+3	4.75	16.45	0	−6	9.11	18.56	−3	−3	12.12	25.18	−1	+8
16	60.05	19.16	+4	0	4.91	16.44	−1	−7	9.24	18.71	−4	0	12.18	25.45	+1	+8
17	60.21	19.00	+3	−3	5.07	16.44	−3	−5	9.36	18.87	−3	+4	12.23	25.72	+2	+8
18	60.36	18.84	+2	−6	5.22	16.45	−4	−2	9.48	19.03	−2	+7	12.29	26.00	+3	+6
19	60.51	18.68	0	−7	5.38	16.45	−3	+2	9.60	19.19	0	+8	12.34	26.27	+4	+3
20	60.66	18.53	−2	−6	5.54	16.47	−2	+5	9.72	19.36	+2	+8	12.39	26.55	+4	0
21	60.82	18.39	−3	−3	5.69	16.49	−1	+7	9.84	19.53	+3	+7	12.44	26.83	+3	−3
22	60.97	18.25	−4	0	5.85	16.51	+1	+9	9.96	19.71	+4	+5	12.48	27.12	+1	−5
23	61.13	18.11	−3	+4	6.00	16.54	+2	+8	10.07	19.89	+4	+2	12.52	27.41	0	−7
24	61.28	17.98	−2	+7	6.15	16.58	+3	+7	10.18	20.08	+3	−1	12.56	27.69	−2	−8
25	61.44	17.86	0	+9	6.30	16.62	+4	+4	10.29	20.27	+2	−4	12.60	27.98	−3	−8
26	61.59	17.74	+1	+9	6.46	16.67	+4	+1	10.40	20.46	+1	−6	12.63	28.27	−4	−6
27	61.75	17.62	+3	+8	6.61	16.72	+3	−2	10.51	20.66	−1	−8	12.66	28.57	−5	−3
28	61.90	17.51	+4	+6	6.75	16.78	+2	−5	10.61	20.86	−3	−8	12.69	28.86	−4	0
29	62.06	17.41	+4	+3	6.90	16.84	0	−7	10.72	21.07	−4	−7	12.71	29.16	−3	+3
30	62.22	17.31	+4	0	7.05	16.91	−2	−8	10.82	21.29	−4	−5	12.73	29.46	−1	+5
31	62.38	17.21	+3	−3	7.19	16.98	−3	−8	10.92	21.50	−4	−2	12.75	29.76	+1	+5
32	62.53	17.12	+1	−6					11.01	21.72	−3	+1	12.77 12.78	30.06 30.36	+3 +4	+4 +2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 41′ 10″	6.916	−6.843	−81° 41′ 20″	6.918	−6.845	−81° 41′ 30″	6.920	−6.848
20	6.918	−6.845	30	6.920	−6.848	40	6.923	−6.850

$\alpha_{1940.0} = 22^h\ 40^m\ 3^s.05$ $\delta_{1940.0} = -81°\ 41'\ 49''.51$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	September AR.	Dekl.	☾ Glieder		Oktober AR.	Dekl.	☾ Glieder		November AR.	Dekl.	☾ Glieder		Dezember AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$22^h 40^m$	81° 41′	$0^s.01$	$0''.01$	$22^h 40^m$	81° 41′	$0^s.01$	$0''.01$	$22^h 40^m$	81° 41′	$0^s.01$	$0''.01$	$22^h 40^m$	81° 41′	$0^s.01$	$0''.01$
1	^{s}12.77 / 12.78	$''$30.06 / 30.36	+3 / +4	+4 / +2	^{s}11.93	$''$39.30	+2	−6	^{s}8.77	$''$46.16	−4	−2	^{s}4.60	$''$48.01	−2	+7
2	12.80	30.67	+4	−1	11.86	39.57	0	−7	8.65	46.30	−3	+2	4.46	47.97	0	+9
3	12.80	30.97	+3	−4	11.79	39.84	−2	−6	8.52	46.45	−2	+6	4.32	47.93	+2	+9
4	12.81	31.27	+1	−6	11.72	40.11	−3	−3	8.38	46.58	−1	+9	4.18	47.88	+3	+8
5	12.81	31.58	−1	−6	11.64	40.38	−3	0	8.25	46.71	+1	+10	4.04	47.82	+4	+6
6	12.81	31.88	−2	−5	11.56	40.64	−3	+4	8.12	46.84	+3	+9	3.90	47.76	+4	+3
7	12.81	32.18	−3	−2	11.48	40.90	−2	+7	7.98	46.96	+4	+7	3.76	47.70	+3	−1
8	12.81	32.49	−3	+2	11.39	41.16	0	+9	7.85	47.07	+4	+4	3.62	47.63	+2	−3
9	12.80	32.79	−2	+5	11.30	41.42	+2	+9	7.71	47.18	+4	+1	3.48	47.55	+1	−6
10	12.79	33.10	−1	+8	11.21	41.67	+3	+8	7.57	47.28	+3	−2	3.34	47.46	−1	−7
11	12.78	33.40	0	+9	11.12	41.92	+4	+6	7.43	47.38	+2	−4	3.21	47.37	−2	−7
12	12.76	33.71	+2	+9	11.03	42.16	+4	+3	7.29	47.47	0	−6	3.07	47.28	−3	−6
13	12.74	34.01	+3	+7	10.93	42.40	+3	0	7.15	47.55	−1	−7	2.94	47.17	−4	−4
14	12.72	34.31	+4	+4	10.83	42.64	+2	−3	7.01	47.63	−3	−6	2.81	47.06	−4	−1
15	12.69	34.61	+4	+1	10.73	42.87	+1	−5	6.87	47.70	−4	−5	2.67	46.95	−3	+2
16	12.67	34.92	+3	−2	10.63	43.10	0	−7	6.73	47.77	−4	−3	2.54	46.83	−2	+4
17	12.64	35.22	+2	−4	10.53	43.32	−2	−7	6.59	47.83	−4	0	2.42	46.70	0	+5
18	12.60	35.52	0	−6	10.43	43.55	−3	−7	6.45	47.88	−3	+2	2.29	46.57	+2	+5
19	12.57	35.82	−1	−8	10.32	43.76	−4	−5	6.31	47.93	−1	+4	2.16	46.43	+3	+3
20	12.53	36.12	−3	−8	10.21	43.98	−4	−3	6.17	47.97	0	+5	2.04	46.28	+3	+1
21	12.49	36.42	−4	−7	10.10	44.19	−4	0	6.03	48.00	+2	+4	1.91	46.13	+3	−3
22	12.45	36.72	−4	−5	9.99	44.39	−3	+3	5.88	48.03	+3	+2	1.79	45.97	+2	−5
23	12.40	37.01	−4	−2	9.88	44.59	−1	+4	5.74	48.05	+4	−1	1.67	45.81	0	−7
24	12.35	37.30	−3	+1	9.76	44.79	+1	+5	5.60	48.07	+3	−4	1.55	45.64	−1	−7
25	12.30	37.59	−2	+4	9.64	44.97	+3	+3	5.46	48.08	+1	−7	1.43	45.47	−3	−5
26	12.24	37.88	0	+5	9.52	45.16	+3	+1	5.31	48.08	0	−8	1.31	45.29	−4	−2
27	12.19	38.17	+2	+4	9.40	45.34	+3	−2	5.17	48.08	−2	−7	1.19	45.11	−3	+2
28	12.13	38.46	+3	+3	9.28	45.51	+2	−5	5.02	48.07	−3	−4	1.08	44.92	−2	+5
29	12.07	38.74	+4	0	9.16	45.68	+1	−7	4.88	48.06	−4	0	0.96	44.73	−1	+8
30	12.00	39.02	+3	−3	9.03	45.84	−1	−7	4.74	48.04	−3	+4	0.85	44.53	+1	+9
31	11.93	39.30	+2	−6	8.90	46.00	−3	−5	4.60	48.01	−2	+7	0.74	44.32	+3	+8
32					8.77	46.16	−4	−2					0.63	44.11	+4	+7

δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 41′ 30″	6.920	−6.848	−81° 41′ 40″	6.923	−6.850
40	6.923	−6.850	50	6.925	−6.852

$\alpha_{1940.0} = 22^h\ 40^m\ 3^s.05$ $\delta_{1940.0} = -81°\ 41'\ 49''.51$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Januar AR.	Januar Dekl.	Januar ℂ Glieder		Februar AR.	Februar Dekl.	Februar ℂ Glieder		März AR.	März Dekl.	März ℂ Glieder		April AR.	April Dekl.	April ℂ Glieder	
		—	in			—	in			—	in			—	in	
	$23^h 19^m$	$87° 48'$	$0^s.01$	$0''.01$	$23^h 19^m$	$87° 48'$	$0^s.01$	$0''.01$	$23^h 19^m$	$87° 48'$	$0^s.01$	$0''.01$	$23^h 19^m$	$87° 48'$	$0^s.01$	$0''.01$
1	$26^s.05$	$59''.61$	+13	−1	13.23	51.59	−7	−4	8.12	41.17	−13	+1	10.76	29.41	−1	+9
2	25.54	59.43	+9	−4	12.94	51.26	−11	−1	8.08	40.78	−12	+4	10.98	29.05	+4	+8
3	25.04	59.24	+3	−5	12.65	50.93	−13	+2	8.04	40.40	−9	+7	11.20	28.69	+9	+7
4	24.54	59.04	−4	−5	12.37	50.60	−11	+5	8.02	40.02	−5	+8	11.44	28.33	+11	+4
5	24.05	58.84	−9	−3	12.10	50.27	−8	+7	8.00	39.63	+1	+8	11.68	27.97	+12	+1
6	23.56	58.63	−13	−1	11.84	49.93	−3	+8	7.99	39.24	+6	+7	11.93	27.62	+11	−2
7	23.08	58.42	−13	+2	11.58	49.59	+2	+8	7.99	38.86	+9	+5	12.19	27.27	+9	−5
8	22.61	58.20	−10	+5	11.34	49.24	+7	+7	8.00	38.47	+11	+3	12.45	26.92	+4	−7
9	22.14	57.98	−6	+7	11.10	48.90	+10	+4	8.02	38.09	+12	0	12.72	26.58	−1	−8
10	21.68	57.75	−1	+8	10.87	48.55	+12	+1	8.05	37.70	+10	−3	13.00	26.23	−6	−8
11	21.23	57.52	+4	+7	10.65	48.20	+12	−2	8.08	37.32	+7	−6	13.29	25.89	−10	−7
12	20.78	57.28	+8	+6	10.44	47.85	+9	−5	*)8.12	36.93	+3	−8	13.58	25.56	−14	−4
13	20.33	57.04	+11	+3	10.24	47.49	+6	−7	8.17	36.55	−3	−9	13.88	25.22	−14	−1
14	19.89	56.79	+12	0	10.04	47.13	0	−9	8.23	36.16	−8	−8	14.19	24.89	−11	+2
15	19.46	56.54	+12	−3	9.85	46.77	−5	−9	8.30	35.78	−12	−7	14.51	24.56	−6	+4
16	19.03	56.28	+8	−6	9.68	46.41	−10	−8	8.38	35.40	−14	−4	14.83	24.23	+1	+5
17	18.61	56.02	+4	−8	9.51	46.04	−14	−5	8.47	35.01	−13	0	15.16	23.91	+7	+5
18	18.20	55.75	−2	−9	9.35	45.68	−14	−2	8.56	34.63	−9	+3	15.49	23.59	+12	+3
19	17.80	55.48	−8	−9	9.20	45.31	−12	+2	8.66	34.25	−3	+5	15.84	23.27	+14	0
20	17.40	55.21	−12	−7	9.05	44.94	−7	+4	8.78	33.87	+4	+5	16.19	22.96	+12	−3
21	17.01	54.93	−15	−4	8.92	44.57	0	+6	8.90	33.49	+10	+4	16.54	22.65	+8	−6
22	16.63	54.65	−14	0	8.80	44.19	+7	+6	9.02	33.12	+14	+2	16.90	22.34	+1	−6
23	16.26	54.36	−9	+4	8.69	43.82	+12	+4	9.16	32.74	+14	−1	17.27	22.04	−6	−5
24	15.89	54.07	−3	+6	8.58	43.44	+15	+1	9.31	32.36	+11	−4	17.65	21.74	−10	−3
25	15.53	53.77	+4	+7	8.48	43.06	+13	−2	9.46	31.99	+5	−6	18.03	21.44	−13	+1
26	15.18	53.47	+10	+6	8.39	42.69	+8	−4	9.62	31.62	−2	−6	18.42	21.15	−12	+4
27	14.83	53.16	+14	+3	8.31	42.31	+2	−5	9.79	31.24	−8	−4	18.81	20.86	−9	+7
28	14.49	52.86	+14	0	8.24	41.93	−5	−4	9.97	30.87	−12	−1	19.21	20.57	−4	+9
29	14.17	52.54	+11	−3	8.18	41.55	−10	−2	10.15	30.50	−13	+3	19.62	20.29	+2	+9
30	13.85	52.23	+6	−5	8.12	41.17	−13	+1	10.35	30.14	−11	+6	20.03	20.01	+7	+8
31	13.53	51.91	−1	−5					10.55	29.77	−7	+8	20.44	19.74	+11	+5
32	13.23	51.59	−7	−4					10.76	29.41	−1	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 48′ 10″	26.083	−26.064	−87° 48′ 30″	26.149	−26.130	−87° 48′ 50″	26.215	−26.196
20	26.116	−26.097	40	26.182	−26.163	60	26.249	−26.230

$\alpha_{1940.0} = 23^h\ 19^m\ 51^s.75$ $\delta_{1940.0} = -87°\ 48'\ 45''.03$

*) Tag der doppelten unteren Kulmination: März 12.

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sk) τ Octantis $5^{m}.56$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$23^h 19^m$	$-87° 48'$	in 0.01^s	in $0.01''$	$23^h 19^m$	$-87° 48'$	in 0.01^s	in $0.01''$	$23^h 19^m$	$-87° 48'$	in 0.01^s	in $0.01''$	$23^h 20^m$	$-87° 48'$	in 0.01^s	in $0.01''$
1	20.44	19.74	+11	+5	35.67	13.43	+ 8	−5	52.34	12.09	− 6	−8	7.43	15.90	−13	0
2	20.87	19.46	+12	+3	36.22	13.30	+ 3	−7	52.89	12.13	−10	−7	7.83	16.10	− 9	+3
3	21.30	19.20	+12	−1	36.77	13.18	− 2	−8	53.43	12.18	−13	−4	8.22	16.31	− 3	+5
4	21.73	18.93	+10	−4	37.32	13.07	− 7	−8	53.97	12.24	−14	−1	8.61	16.52	+ 4	+6
5	22.17	18.67	+ 6	−6	37.87	12.96	−11	−6	54.51	12.30	−11	+2	8.99	16.73	+10	+5
6	22.61	18.42	+ 1	−8	38.42	12.86	−13	−3	55.04	12.36	− 6	+5	9.36	16.95	+13	+2
7	23.06	18.17	− 4	−8	38.98	12.76	−13	0	55.57	12.43	0	+6	9.72	17.17	+14	−1
8	23.52	17.92	− 9	−7	39.53	12.67	− 9	+3	56.10	12.51	+ 7	+6	10.08	17.40	+11	−4
9	23.98	17.68	−12	−5	40.09	12.58	− 4	+5	56.62	12.59	+11	+4	10.43	17.64	+ 5	−6
10	24.44	17.44	−13	−2	40.64	12.50	+ 3	+6	57.14	12.68	+14	+1	10.77	17.87	− 1	−6
11	24.91	17.21	−12	+1	41.20	12.43	+ 8	+5	57.66	12.77	+12	−2	11.10	18.11	− 7	−4
12	25.39	16.98	− 8	+4	41.76	12.36	+12	+2	58.17	12.87	+ 9	−5	11.43	18.36	−11	−2
13	25.87	16.76	− 2	+5	42.32	12.29	+13	−1	58.68	12.97	+ 2	−6	11.75	18.61	−12	+2
14	26.35	16.54	+ 5	+5	42.88	12.23	+11	−4	59.19	13.08	− 4	−6	12.05	18.86	−11	+5
15	26.84	16.32	+10	+4	43.44	12.17	+ 6	−6	59.69	13.19	− 9	−4	12.35	19.11	− 7	+7
16	27.33	16.11	+13	+1	44.00	12.13	0	−7	60.19	13.31	−12	−1	12.65	19.37	− 1	+8
17	27.83	15.91	+13	−2	44.56	12.08	− 6	−6	60.68	13.44	−12	+3	12.93	19.63	+ 4	+8
18	28.33	15.71	+ 9	−5	45.12	12.05	−11	−3	61.17	13.57	−10	+6	13.20	19.89	+ 8	+7
19	28.83	15.51	+ 4	−7	45.68	12.02	−13	+1	61.65	13.70	− 5	+8	13.47	20.16	+11	+4
20	29.34	15.32	− 3	−7	46.24	11.99	−12	+4	62.13	13.84	0	+9	13.73	20.43	+12	+1
21	29.85	15.14	− 9	−5	46.80	11.97	− 9	+7	62.60	13.99	+ 6	+8	13.98	20.70	+11	−2
22	30.36	14.96	−13	−1	47.36	11.96	− 3	+8	63.07	14.14	+10	+6	14.22	20.98	+ 9	−5
23	30.88	14.78	−13	+3	47.92	11.95	+ 2	+8	63.53	14.29	+12	+3	14.45	21.26	+ 4	−7
24	31.40	14.61	−11	+6	48.48	11.95	+ 7	+7	63.99	14.45	+12	0	14.67	21.54	− 1	−8
25	31.92	14.44	− 6	+8	49.04	11.95	+11	+5	64.44	14.62	+11	−3	14.88	21.83	− 6	−8
26	32.45	14.28	− 1	+9	49.59	11.96	+13	+2	64.88	14.79	+ 7	−6	15.08	22.12	−11	−7
27	32.98	14.13	+ 5	+9	50.15	11.97	+12	−1	65.32	14.96	+ 2	−8	15.27	22.41	−14	−5
28	33.52	13.98	+ 9	+7	50.70	11.99	+10	−4	65.75	15.14	− 3	−8	15.45	22.70	−14	−1
29	34.05	13.83	+12	+4	51.25	12.02	+ 5	−7	66.18	15.32	− 8	−8	15.62	22.99	−11	+2
30	34.59	13.69	+13	+1	51.80	12.05	0	−8	66.60	15.51	−12	−6	15.79	23.28	− 6	+4
31	35.13	13.56	+11	−2	52.34	12.09	− 6	−8	67.02	15.70	−14	−3	15.94	23.58	0	+5
32	35.67	13.43	+ 8	−5					67.43	15.90	−13	0	16.09	23.88	+ 7	+5

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 48′ 10″	26.083	−26.064	−87° 48′ 20″	26.116	−26.097
20	26.116	−26.097	30	26.149	−26.130

$\alpha_{1940.0} = 23^h\ 19^m\ 51^s.75$ $\delta_{1940.0} = -87°\ 48'\ 45''.03$

Scheinbare Sternörter 1940

Obere Kulmination Greenwich

Sk) τ Octantis 5^m56

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
		—	in			—	in			—	in			—	in	
	23^h20^m	87° 48′	$0^s.01$	0″.01	23^h20^m	87° 48′	$0^s.01$	0″.01	23^h19^m	87° 48′	$0^s.01$	0″.01	23^h19^m	87° 48′	$0^s.01$	0″.01
1	16.09	23.88	+7	+5	15.39	33.50	+10	−5	65.18	41.39	−11	−3	49.39	44.55	−10	+6
2	16.22	24.18	+12	+3	15.20	33.80	+4	−6	64.72	41.58	−13	+1	48.83	44.55	−5	+8
3	16.35	24.49	+14	0	15.00	34.10	−2	−6	64.25	41.76	−12	+4	48.26	44.55	+1	+9
4	16.46	24.79	+12	−3	14.79	34.39	−8	−4	63.78	41.94	−8	+8	47.69	44.55	+7	+9
5	16.56	25.09	+8	−5	14.57	34.68	−12	−1	63.31	42.11	−2	+9	47.12	44.54	+11	+7
6	16.65	25.40	+2	−6	14.34	34.97	−13	+3	62.82	42.28	+4	+10	46.55	44.52	+13	+4
7	16.74	25.41	−5	−5	14.10	35.26	−10	+6	62.34	42.44	+9	+8	45.98	44.49	+13	+1
8	16.81	26.02	−10	−3	13.85	35.55	−5	+9	61.84	42.60	+12	+6	45.41	44.46	+11	−2
9	16.87	26.33	−12	+1	13.59	35.84	0	+10	61.34	42.75	+13	+2	44.84	44.42	+7	−5
10	16.93	26.64	−12	+4	13.32	36.12	+6	+9	60.83	42.90	+12	−1	44.27	44.38	+2	−7
11	16.97 17.00	26.95 27.26	−8 −4	+7 +9	13.04	36.40	+10	+7	60.32	43.04	+9	−4	43.70	44.33	−4	−7
12	17.02	27.58	+2	+9	12.75	36.68	+12	+4	59.81	43.17	+5	−6	43.14	44.27	−8	−6
13	17.03	27.89	+7	+8	12.46	36.95	+12	+1	59.29	43.30	0	−7	42.57	44.21	−12	−5
14	17.03	28.21	+10	+5	12.15	37.22	+11	−2	58.77	43.42	−5	−7	42.01	44.14	−13	−2
15	17.02	28.52	+12	+2	11.83	37.48	+7	−5	58.24	43.53	−9	−6	41.45	44.06	−12	+1
16	17.00	28.84	+12	−1	11.51	37.75	+3	−7	57.71	43.64	−12	−4	40.89	43.98	−9	+3
17	16.96	29.15	+10	−3	11.18	38.00	−2	−7	57.17	43.75	−13	−2	40.34	43.89	−3	+5
18	16.92	29.47	+6	−6	10.83	38.26	−7	−7	56.63	43.85	−11	+1	39.78	43.79	+3	+5
19	16.87	29.78	+1	−7	10.48	38.51	−11	−6	56.09	43.94	−7	+4	39.23	43.69	+8	+4
20	16.80	30.10	−4	−8	10.12	38.76	−13	−4	55.54	44.03	−2	+5	38.68	43.58	+12	+2
21	16.73	30.41	−9	−7	9.75	39.00	−13	−1	54.99	44.11	+4	+5	38.14	43.47	+13	−1
22	16.64	30.73	−12	−6	9.37	39.24	−10	+2	54.44	44.18	+10	+3	37.59	43.34	+11	−4
23	16.54	31.04	−14	−3	8.99	39.48	−5	+4	53.89	44.25	+12	0	37.06	43.22	+5	−7
24	16.44	31.35	−13	0	8.59	39.71	+1	+5	53.33	44.31	+12	−3	36.52	43.08	0	−7
25	16.32	31.66	−9	+3	8.19	39.93	+7	+4	52.78	44.36	+9	−6	35.99	42.94	−7	−6
26	16.19	31.97	−3	+5	7.79	40.16	+12	+2	52.22	44.41	+3	−7	35.46	42.80	−11	−3
27	16.05	32.28	+4	+5	7.37	40.37	+13	−1	51.66	44.45	−3	−7	34.94	42.65	−12	0
28	15.90	32.59	+10	+4	6.95	40.59	+11	−4	51.09	44.48	−9	−5	34.42	42.49	−12	+4
29	15.74	32.89	+13	+1	6.52	40.80	+7	−6	50.53	44.51	−13	−1	33.90	42.33	−8	+7
30	15.57	33.20	+13	−2	6.08	41.00	+1	−7	49.96	44.53	−13	+3	33.39	42.16	−2	+9
31	15.39	33.50	+10	−5	5.63	41.20	−6	−6	49.39	44.55	−10	+6	32.88	41.99	+4	+9
32					5.18	41.39	−11	−3					32.38	41.81	+9	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 48′ 20″	26.116	−26.097	−87° 48′ 30″	26.149	−26.130	−87° 48′ 40″	26.182	−26.163
30	26.149	−26.130	40	26.182	−26.163	50	26.215	−26.196

$\alpha_{1940.0} = 23^h\ 19^m\ 51^s.75$ $\delta_{1940.0} = -87°\ 48'\ 45''.03$

P 40

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ.06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Nutationsgl.*)	
1940		x	y	x	y	x	y	x	y	in 0.″01	
Jan.	0	−303.″24	+84.″91	−103.″55	+869.″65	−1084.″92	−339.″18	−43.″34	−319.″16	−5	−6
	1	303.25	84.58	103.56	869.32	1084.93	339.51	43.22	319.49	−1	−8
	2	303.25	84.25	103.57	868.99	1084.93	339.85	43.08	319.81	+2	−7
	3	303.25	83.91	103.56	868.65	1084.93	340.18	42.94	320.13	+4	−4
	4	303.24	83.58	103.55	868.32	1084.92	340.51	42.80	320.45	+5	−1
	5	−303.22	+83.26	−103.54	+868.00	−1084.90	−340.84	−42.65	−320.77	+5	+3
	6	303.20	82.93	103.52	867.67	1084.88	341.17	42.49	321.08	+3	+6
	7	303.17	82.60	103.49	867.34	1084.85	341.50	42.33	321.40	0	+7
	8	303.13	82.28	103.45	867.02	1084.81	341.83	42.16	321.71	−3	+7
	9	303.09	81.95	103.41	866.69	1084.77	342.15	41.99	322.02	−5	+6
	10	−303.04	+81.63	−103.36	+866.37	−1084.72	−342.48	−41.81	−322.33	−7	+4
	11	302.99	81.31	103.30	866.05	1084.66	342.80	41.62	322.64	−7	+1
	12	302.93	80.98	103.24	865.72	1084.60	343.13	41.43	322.94	−7	−2
	13	302.86	80.66	103.17	865.41	1084.53	343.45	41.24	323.24	−5	−4
	14	302.78	80.34	103.09	865.09	1084.45	343.77	41.04	323.53	−3	−6
	15	−302.70	+80.03	−103.01	+864.77	−1084.37	−344.08	−40.83	−323.83	0	−7
	16	302.62	79.71	102.93	864.46	1084.29	344.40	40.62	324.12	+4	−7
	17	302.52	79.40	102.83	864.15	1084.19	344.71	40.40	324.41	+7	−5
	18	302.42	79.09	102.74	863.83	1084.10	345.02	40.18	324.70	+9	−3
	19	302.31	78.78	102.63	863.53	1083.99	345.33	39.95	324.98	+9	+1
	20	−302.20	+78.47	−102.52	+863.22	−1083.88	−345.64	−39.72	−325.26	+9	+4
	21	302.08	78.16	102.40	862.92	1083.76	345.94	39.48	325.54	+6	+6
	22	301.96	77.86	102.28	862.62	1083.64	346.24	39.24	325.81	+3	+8
	23	301.82	77.56	102.15	862.32	1083.50	346.54	38.99	326.08	−1	+7
	24	301.69	77.27	102.01	862.03	1083.36	346.83	38.74	326.34	−4	+5
	25	−301.54	+76.98	−101.87	+861.74	−1083.22	−347.12	−38.48	−326.60	−6	+1
	26	301.39	76.69	101.72	861.45	1083.07	347.41	38.22	326.86	−7	−3
	27	301.24	76.40	101.57	861.17	1082.92	347.70	37.95	327.12	−6	−6
	28	301.08	76.12	101.41	860.89	1082.76	347.98	37.68	327.37	−3	−8
	29	300.91	75.84	101.24	860.61	1082.59	348.26	37.41	327.62	0	−8
	30	−300.74	+75.57	−101.07	+860.33	−1082.42	−348.54	−37.13	−327.86	+3	−6
	31	300.56	75.30	100.89	860.06	1082.24	348.81	36.84	328.10	+5	−2
Febr.	1	300.38	75.03	100.71	859.79	1082.06	349.08	36.55	328.34	+5	+1
	2	300.19	74.77	100.52	859.52	1081.87	349.35	36.26	328.57	+3	+5
	3	300.00	74.51	100.33	859.26	1081.68	349.61	35.96	328.80	+1	+7
	4	−299.80	+74.25	−100.13	+859.01	−1081.48	−349.87	−35.66	−329.02	−2	+8
	5	299.60	74.00	99.93	858.75	1081.28	350.12	35.36	329.24	−5	+7
	6	−299.39	+73.75	− 99.72	+858.51	−1081.07	−350.37	−35.05	−329.45	−7	+5
Mittl. Ort		−279.″89	+78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0″.01	
Febr. 6	−299.39″	+73.75″	−99.72″	+858.51″	−1081.07″	−350.37″	−35.05″	−329.45″	−7	+5
7	299.17	73.51	99.50	858.26	1080.85	350.61	34.74	329.66	−8	+2
8	298.95	73.27	99.28	858.02	1080.63	350.85	34.43	329.87	−7	−1
9	298.73	73.04	99.06	857.79	1080.41	351.09	34.11	330.07	−6	−3
10	298.50	72.81	98.83	857.56	1080.18	351.32	33.79	330.27	−4	−5
11	−298.27	+72.58	−98.60	+857.33	−1079.95	−351.55	−33.46	−330.46	−1	−7
12	298.03	72.36	98.36	857.11	1079.71	351.77	33.13	330.65	+2	−7
13	297.79	72.15	98.12	856.90	1079.47	351.99	32.80	330.83	+5	−6
14	297.54	71.94	97.87	856.69	1079.22	352.20	32.46	331.01	+8	−4
15	297.29	71.73	97.62	856.48	1078.97	352.41	32.13	331.18	+9	−1
16	−297.04	+71.53	−97.37	+856.28	−1078.72	−352.61	−31.79	−331.35	+9	+2
17	296.78	71.34	97.11	856.09	1078.46	352.80	31.44	331.52	+8	+5
18	296.52	71.15	96.85	855.90	1078.20	352.99	31.10	331.68	+5	+7
19	296.25	70.96	96.58	855.71	1077.93	353.18	30.75	331.84	+1	+7
20	295.98	70.78	96.31	855.53	1077.66	353.36	30.40	331.99	−2	+6
21	−295.70	+70.60	−96.03	+855.35	−1077.38	−353.54	−30.04	−332.14	−5	+3
22	295.43	70.43	95.76	855.19	1077.11	353.71	29.69	332.28	−6	−1
23	295.15	70.27	95.48	855.02	1076.83	353.87	29.33	332.42	−6	−4
24	294.86	70.11	95.19	854.87	1076.54	354.03	28.97	332.55	−4	−7
25	294.58	69.96	94.91	854.72	1076.26	354.18	28.61	332.68	−1	−8
26	−294.29	+69.81	−94.62	+854.57	−1075.97	−354.33	−28.24	−332.80	+2	−7
27	294.00	69.67	94.33	854.43	1075.68	354.47	27.88	332.92	+4	−4
28	293.71	69.54	94.04	854.30	1075.39	354.60	27.51	333.03	+5	0
29	293.41	69.41	93.74	854.17	1075.09	354.73	27.14	333.14	+4	+3
März 1	293.11	69.29	93.44	854.05	1074.79	354.85	26.77	333.24	+2	+6
2	−292.81	+69.17	−93.14	+853.93	−1074.49	−354.97	−26.39	−333.34	−1	+7
3	292.50	69.06	92.84	853.82	1074.18	355.08	26.02	333.44	−4	+7
4	292.20	68.96	92.53	853.72	1073.88	355.18	25.65	333.53	−7	+6
5	291.89	68.86	92.22	853.62	1073.57	355.28	25.27	333.61	−8	+3
6	291.58	68.76	91.91	853.53	1073.26	355.37	24.89	333.69	−8	0
7	−291.27	+68.68	−91.60	+853.44	−1072.95	−355.46	−24.51	−333.76	−7	−3
8	290.95	68.59	91.29	853.36	1072.63	355.54	24.13	333.83	−5	−5
9	290.64	68.52	90.98	853.29	1072.32	355.61	23.75	333.89	−2	−6
10	290.32	68.45	90.66	853.22	1072.00	355.68	23.37	333.95	+1	−7
11	290.00	68.39	90.34	853.16	1071.68	355.74	22.99	334.00	+4	−6
12	−289.68	+68.34	−90.02	+853.11	−1071.36	−355.80	−22.60	−334.05	+6	−4
13	289.36	68.29	89.70	853.06	1071.04	355.84	22.22	334.10	+8	−2
14	−289.04	+68.25	−89.38	+853.02	−1070.72	−355.89	−21.83	−334.14	+9	+1
Mittl. Ort	−279.89″	+78.84″	−80.17″	+863.56″	−1061.57″	−345.23″	−26.22″	−307.43″		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0.″01	
März 14	−289.″04	+68.″25	−89.″38	+853.″02	−1070.″72	−355.″89	−21.″83	−334.″14	+9	+1
15	288.72	68.21	89.06	852.98	1070.40	355.92	21.45	334.17	+8	+4
16	288.40	68.18	88.74	852.95	1070.08	355.95	21.06	334.20	+6	+6
17	288.08	68.16	88.42	852.93	1069.76	355.98	20.68	334.23	+3	+7
18	287.75	68.14	88.09	852.91	1069.43	356.00	20.29	334.25	0	+7
19	−287.43	+68.13	−87.77	+852.90	−1069.11	−356.01	−19.91	−334.26	−3	+4
20	287.11	68.12	87.45	852.89	1068.79	356.02	19.52	334.27	−5	+1
21	286.79	68.12	87.13	852.89	1068.47	356.02	19.14	334.27	−5	−3
22	286.47	68.13	86.80	852.90	1068.15	356.01	18.75	334.27	−4	−6
22	286.15	68.15	86.48	852.92	1067.83	355.99	18.37	334.27	−1	−8
23	−285.83	+68.17	−86.16	+852.94	−1067.51	−355.97	−17.98	−334.26	+2	−7
24	285.51	68.19	85.84	852.96	1067.19	355.95	17.60	334.24	+4	−5
25	285.19	68.22	85.52	852.99	1066.87	355.92	17.22	334.22	+5	−2
26	284.87	68.26	85.20	853.03	1066.55	355.88	16.84	334.20	+5	+2
27	284.55	68.30	84.88	853.07	1066.23	355.84	16.45	334.17	+3	+5
28	−284.23	+68.35	−84.57	+853.12	−1065.91	−355.79	−16.07	−334.13	0	+7
29	283.91	68.41	84.25	853.18	1065.59	355.73	15.69	334.09	−3	+8
30	283.59	68.47	83.94	853.24	1065.27	355.67	15.31	334.05	−6	+7
31	283.28	68.54	83.62	853.31	1064.96	355.60	14.94	334.00	−8	+4
April 1	282.97	68.62	83.31	853.39	1064.65	355.52	14.56	333.95	−9	+1
2	−282.66	+68.70	−83.00	+853.47	−1064.34	−355.44	−14.18	−333.89	−8	−2
3	282.35	68.79	82.70	853.56	1064.03	355.35	13.81	333.82	−6	−4
4	282.05	68.88	82.39	853.65	1063.73	355.26	13.44	333.76	−4	−6
5	281.74	68.98	82.09	853.75	1063.42	355.16	13.07	333.68	−1	−7
6	281.44	69.08	81.79	853.85	1063.12	355.06	12.70	333.60	+2	−6
7	−281.14	+69.19	−81.49	+853.96	−1062.82	−354.95	−12.33	−333.52	+5	−5
8	280.84	69.31	81.19	854.08	1062.52	354.83	11.96	333.43	+7	−3
9	280.55	69.43	80.90	854.20	1062.23	354.71	11.60	333.34	+8	0
10	280.25	69.56	80.60	854.33	1061.93	354.58	11.23	333.24	+8	+3
11	279.97	69.69	80.32	854.46	1061.65	354.45	10.87	333.14	+7	+5
12	−279.68	+69.83	−80.03	+854.60	−1061.36	−354.31	−10.51	−333.03	+4	+7
13	279.40	69.98	79.75	854.75	1061.08	354.16	10.16	332.92	+1	+7
14	279.12	70.12	79.47	854.89	1060.80	354.02	9.80	332.81	−2	+5
15	278.84	70.28	79.19	855.05	1060.52	353.86	9.45	332.69	−4	+2
16	278.56	70.44	78.91	855.21	1060.24	353.70	9.10	332.57	−5	−1
17	−278.29	+70.60	−78.64	+855.37	−1059.97	−353.54	− 8.75	−332.44	−4	−5
18	278.02	70.77	78.37	855.54	1059.70	353.37	8.40	332.31	−2	−7
19	−277.75	+70.95	−78.10	+855.72	−1059.44	−353.19	− 8.06	−332.17	+1	−8
Mittl. Ort	−279.″89	+78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.ᵐ56		BD +89° 3 Gr. 9.ᵐ06		BD +89° 37 Gr. 10.ᵐ06		CPD −89° 38 Gr. 9.ᵐ5		Kurzperiod. Nutationsgl.*)	
1940	*x*	*y*	*x*	*y*	*x*	*y*	*x*	*y*	in 0.″01	
April 19	−277.″75	+70.″95	−78.″10	+855.″72	−1059.″44	−353.″19	− 8.″06	−332.″17	+1	−8
20	277.49	71.13	77.84	855.90	1059.18	353.01	7.72	332.03	+4	−7
21	277.23	71.31	77.58	856.08	1058.92	352.83	7.38	331.89	+6	−4
22	276.98	71.50	77.33	856.27	1058.67	352.64	7.04	331.74	+6	0
23	276.73	71.70	77.08	856.46	1058.42	352.44	6.71	331.58	+5	+3
24	−276.49	+71.89	−76.84	+856.66	−1058.18	−352.25	− 6.38	−331.43	+2	+6
25	276.25	72.10	76.60	856.86	1057.93	352.04	6.05	331.26	−1	+8
26	276.01	72.30	76.36	857.07	1057.70	351.84	5.73	331.10	−5	+7
27	275.78	72.51	76.13	857.28	1057.46	351.63	5.41	330.93	−7	+5
28	275.55	72.73	75.90	857.49	1057.23	351.41	5.09	330.75	−9	+3
29	−275.33	+72.95	−75.68	+857.71	−1057.01	−351.19	− 4.78	−330.57	−9	0
30	275.11	73.18	75.46	857.94	1056.79	350.96	4.47	330.39	−7	−3
Mai 1	274.89	73.41	75.25	858.17	1056.57	350.73	4.16	330.20	−5	−5
2	274.68	73.64	75.04	858.40	1056.36	350.50	3.86	330.01	−2	−7
3	274.48	73.88	74.83	858.64	1056.15	350.26	3.56	329.82	+1	−7
4	−274.27	+74.12	−74.63	+858.88	−1055.95	−350.02	− 3.26	−329.62	+4	−6
5	274.08	74.36	74.43	859.12	1055.75	349.78	2.97	329.42	+6	−4
6	273.88	74.61	74.24	859.37	1055.56	349.53	2.68	329.22	+8	−1
7	273.69	74.86	74.05	859.62	1055.37	349.28	2.39	329.01	+8	+2
8	273.51	75.11	73.87	859.87	1055.18	349.03	2.11	328.80	+7	+4
9	−273.33	+75.37	−73.69	+860.13	−1055.00	−348.77	− 1.83	−328.58	+5	+6
10	273.16	75.63	73.52	860.39	1054.83	348.51	1.56	328.36	+2	+7
11	272.99	75.90	73.35	860.66	1054.66	348.25	1.28	328.14	−2	+6
12	272.83	76.17	73.19	860.93	1054.49	347.98	1.02	327.91	−4	+4
13	272.68	76.44	73.04	861.20	1054.34	347.71	0.76	327.68	−5	0
14	−272.52	+76.71	−72.88	+861.47	−1054.18	−347.44	− 0.50	−327.45	−5	−3
15	272.38	76.99	72.74	861.75	1054.03	347.16	− 0.24	327.21	−3	−6
16	272.24	77.26	72.60	862.02	1053.89	346.88	0.00	326.97	0	−7
17	272.10	77.55	72.46	862.31	1053.75	346.60	+ 0.25	326.73	+3	−7
18	271.97	77.83	72.33	862.59	1053.62	346.32	0.49	326.49	+5	−5
19	−271.85	+78.12	−72.20	+862.88	−1053.49	−346.03	+ 0.73	−326.24	+7	−2
20	271.73	78.41	72.08	863.16	1053.37	345.74	0.96	325.99	+6	+2
21	271.62	78.70	71.97	863.46	1053.26	345.45	1.18	325.74	+4	+5
22	271.51	78.99	71.86	863.75	1053.15	345.16	1.41	325.48	+1	+7
23	271.41	79.29	71.76	864.04	1053.04	344.86	1.62	325.22	−3	+8
24	−271.31	+79.58	−71.66	+864.34	−1052.94	−344.57	+ 1.84	−324.96	−6	+6
25	271.22	79.88	71.57	864.64	1052.85	344.27	2.05	324.70	−8	+4
26	−271.13	+80.18	−71.48	+864.93	−1052.76	−343.97	+ 2.25	−324.43	−9	+1
Mittl. Ort	−279.″89	+78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Nutationsgl.*)	
1940		x	y	x	y	x	y	x	y	in 0.″01	
Mai	26	−271.″13	+80.″18	−71.″48	+864.″93	−1052.″76	−343.″97	+ 2.″25	−324.″43	−9	+1
	27	271.05	80.49	71.40	865.24	1052.68	343.66	2.45	324.16	−8	−2
	28	270.97	80.79	71.33	865.54	1052.61	343.36	2.65	323.89	−6	−5
	29	270.90	81.10	71.26	865.85	1052.54	343.05	2.84	323.61	−3	−6
	30	270.83	81.40	71.20	866.15	1052.47	342.75	3.02	323.34	0	−7
	31	−270.78	+81.71	−71.14	+866.46	−1052.42	−342.44	+ 3.20	−323.06	+3	−6
Juni	1	270.72	82.02	71.09	866.77	1052.36	342.13	3.38	322.78	+6	−5
	2	270.68	82.33	71.04	867.08	1052.32	341.82	3.55	322.49	+7	−2
	3	270.64	82.64	71.00	867.39	1052.28	341.51	3.71	322.21	+8	+1
	4	270.60	82.95	70.97	867.70	1052.24	341.20	3.87	321.92	+7	+4
	5	−270.57	+83.26	−70.94	+868.01	−1052.21	−340.89	+ 4.03	−321.63	+5	+6
	6	270.55	83.58	70.92	868.33	1052.19	340.57	4.18	321.34	+2	+7
	7	270.53	83.89	70.90	868.64	1052.17	340.26	4.32	321.05	−1	+6
	8	270.52	84.20	70.89	868.95	1052.16	339.95	4.46	320.75	−4	+5
	9	270.51	84.52	70.88	869.27	1052.15	339.63	4.59	320.46	−6	+2
	10	−270.51	+84.83	−70.88	+869.58	−1052.15	−339.32	+ 4.71	−320.16	−6	−2
	11	270.52	85.15	70.89	869.90	1052.15	339.00	4.83	319.86	−5	−5
	12	270.53	85.47	70.90	870.22	1052.16	338.69	4.95	319.56	−2	−7
	13	270.54	85.78	70.92	870.53	1052.18	338.37	5.06	319.26	+1	−7
	14	270.57	86.10	70.94	870.85	1052.20	338.06	5.16	318.95	+4	−6
	15	−270.59	+86.42	−70.97	+871.17	−1052.23	−337.74	+ 5.26	−318.65	+6	−3
	16	270.63	86.73	71.01	871.48	1052.26	337.43	5.36	318.35	+6	0
	17	270.67	87.05	71.05	871.80	1052.30	337.11	5.45	318.04	+5	+4
	18	270.71	87.37	71.09	872.12	1052.34	336.80	5.53	317.73	+2	+6
	19	270.76	87.68	71.14	872.43	1052.39	336.48	5.61	317.42	−1	+7
	20	−270.82	+88.00	−71.20	+872.75	−1052.45	−336.17	+ 5.69	−317.12	−4	+7
	21	270.88	88.32	71.26	873.07	1052.51	335.85	5.75	316.81	−7	+5
	22	270.95	88.63	71.33	873.38	1052.58	335.54	5.81	316.50	−8	+2
	23	271.03	88.94	71.41	873.69	1052.65	335.23	5.87	316.19	−8	−1
	24	271.11	89.25	71.49	874.00	1052.73	334.92	5.92	315.88	−7	−4
	25	−271.19	+89.56	−71.57	+874.31	−1052.81	−334.60	+ 5.96	−315.57	−4	−6
	26	271.28	89.87	71.66	874.62	1052.90	334.29	6.00	315.26	−1	−7
	27	271.38	90.18	71.76	874.93	1053.00	333.98	6.03	314.95	+2	−7
	28	271.48	90.49	71.86	875.24	1053.10	333.67	6.06	314.64	+5	−5
	29	271.59	90.80	71.97	875.55	1053.21	333.37	6.08	314.33	+7	−3
	30	−271.70	+91.10	−72.08	+875.85	−1053.32	−333.06	+ 6.09	−314.02	+8	0
Juli	1	271.82	91.41	72.20	876.16	1053.44	332.76	6.10	313.71	+8	+3
	2	−271.94	+91.71	−72.33	+876.46	−1053.56	−332.46	+ 6.11	−313.40	+6	+5
Mittl. Ort		−279.″89	+78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0.″01	
Juli 2	−271.″94	+ 91.″71	−72.″33	+876.″46	−1053.″56	−332.″46	+ 6.″11	−313.″40	+6	+5
3	272.07	92.01	72.45	876.76	1053.69	332.15	6.11	313.09	+4	+7
4	272.20	92.31	72.59	877.06	1053.82	331.85	6.10	312.78	0	+7
5	272.34	92.60	72.73	877.35	1053.96	331.56	6.09	312.47	−3	+6
6	272.48	92.90	72.87	877.65	1054.10	331.26	6.07	312.16	−5	+3
7	−272.63	+ 93.19	−73.02	+877.94	−1054.25	−330.96	+ 6.04	−311.85	−6	−1
8	272.78	93.48	73.18	878.23	1054.40	330.67	6.01	311.54	−6	−4
9	272.94	93.77	73.34	878.52	1054.56	330.38	5.97	311.24	−4	−6
10	273.11	94.06	73.50	878.81	1054.72	330.09	5.93	310.94	−1	−7
11	273.28	94.34	73.67	879.09	1054.89	329.81	5.88	310.63	+2	−7
12	−273.45	+ 94.63	−73.85	+879.37	−1055.07	−329.52	+ 5.83	−310.33	+5	−4
13	273.63	94.91	74.03	879.65	1055.24	329.24	5.77	310.03	+6	−1
14	273.82	95.19	74.21	879.93	1055.43	328.96	5.70	309.73	+5	+3
15	274.01	95.47	74.40	880.21	1055.62	328.68	5.63	309.43	+3	+5
16	274.20	95.75	74.60	880.49	1055.81	328.40	5.55	309.14	0	+7
17	−274.40	+ 96.02	−74.80	+880.76	−1056.01	−328.13	+ 5.47	−308.84	−3	+7
18	274.61	96.29	75.01	881.03	1056.21	327.86	5.38	308.55	−6	+6
19	274.82	96.56	75.22	881.30	1056.42	327.59	5.29	308.26	−7	+3
20	275.03	96.82	75.43	881.56	1056.63	327.33	5.19	307.97	−8	0
21	275.25	97.08	75.65	881.82	1056.85	327.07	5.08	307.68	−7	−3
22	−275.47	+ 97.34	−75.87	+882.08	−1057.07	−326.81	+ 4.97	−307.40	−5	−5
23	275.70	97.60	76.10	882.33	1057.30	326.56	4.86	307.11	−3	−6
24	275.93	97.85	76.33	882.59	1057.53	326.30	4.74	306.83	+1	−7
25	276.17	98.11	76.57	882.84	1057.76	326.05	4.61	306.55	+4	−6
26	276.41	98.35	76.81	883.09	1058.00	325.80	4.48	306.28	+6	−4
27	−276.65	+ 98.60	−77.05	+883.33	−1058.24	−325.56	+ 4.35	−306.00	+8	−2
28	276.90	98.84	77.30	883.57	1058.49	325.32	4.21	305.73	+9	+1
29	277.15	99.08	77.55	883.81	1058.74	325.08	4.06	305.46	+8	+4
30	277.41	99.31	77.81	884.04	1059.00	324.85	3.91	305.20	+6	+6
31	277.67	99.55	78.07	884.28	1059.26	324.61	3.76	304.94	+3	+7
Aug. 1	−277.94	+ 99.77	−78.33	+884.50	−1059.53	−324.39	+ 3.59	−304.68	−1	+7
2	278.20	100.00	78.60	884.73	1059.79	324.16	3.43	304.42	−4	+4
3	278.48	100.22	78.87	884.95	1060.07	323.94	3.26	304.17	−6	+1
4	278.75	100.44	79.15	885.17	1060.34	323.72	3.08	303.91	−6	−3
5	279.03	100.65	79.43	885.38	1060.62	323.51	2.90	303.67	−5	−6
6	−279.31	+100.86	−79.72	+885.59	−1060.90	−323.30	+ 2.71	−303.42	−2	−7
7	279.60	101.07	80.01	885.80	1061.19	323.09	2.52	303.18	+1	−7
8	−279.89	+101.27	−80.30	+886.00	−1061.48	−322.89	+ 2.32	−302.94	+4	−5
Mittl. Ort	−279.″89	+ 78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m56		BD +89° 3 Gr. 9^m06		BD +89° 37 Gr. 10^m06		CPD −89° 38 Gr. 9^m5		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0.″01	
Aug. 8	−279.″89	+101.″27	−80.″30	+886.″00	−1061.″48	−322.″89	+ 2.″32	−302.″94	+4	−5
9	280.18	101.47	80.59	886.20	1061.77	322.69	2.12	302.71	+5	−2
10	280.48	101.66	80.89	886.40	1062.07	322.50	1.92	302.48	+5	+1
11	280.78	101.85	81.19	886.59	1062.37	322.31	1.71	302.25	+4	+5
12	281.08	102.04	81.50	886.78	1062.67	322.12	1.50	302.03	+1	+7
13	−281.39	+102.23	−81.80	+886.96	−1062.98	−321.93	+ 1.28	−301.81	−2	+7
14	281.70	102.41	82.12	887.15	1063.29	321.75	1.06	301.60	−5	+7
15	282.01	102.59	82.43	887.32	1063.60	321.57	0.83	301.39	−7	+4
16	282.33	102.76	82.75	887.50	1063.92	321.40	0.60	301.19	−8	+1
17	282.65	102.93	83.07	887.67	1064.24	321.23	0.36	300.99	−8	−2
18	−282.97	+103.10	−83.39	+887.83	−1064.56	−321.07	+ 0.13	−300.79	−6	−4
19	283.30	103.26	83.72	888.00	1064.89	320.90	− 0.12	300.60	−4	−6
20	283.63	103.42	84.05	888.15	1065.22	320.75	0.36	300.41	−1	−7
21	283.96	103.57	84.38	888.30	1065.55	320.60	0.61	300.23	+2	−6
22	284.30	103.72	84.71	888.45	1065.88	320.45	0.86	300.05	+5	−5
23	−284.63	+103.86	−85.05	+888.60	−1066.22	−320.30	− 1.12	−299.88	+7	−3
24	284.97	104.00	85.38	888.73	1066.55	320.17	1.38	299.71	+9	0
25	285.31	104.14	85.73	888.87	1066.90	320.03	1.64	299.55	+8	+3
26	285.66	104.27	86.07	889.00	1067.24	319.90	1.91	299.39	+7	+5
27	286.01	104.40	86.42	889.13	1067.59	319.77	2.18	299.24	+4	+7
28	−286.35	+104.52	−86.76	+889.25	−1067.93	−319.65	− 2.45	−299.09	+1	+7
29	286.71	104.64	87.12	889.36	1068.29	319.53	2.73	298.95	−2	+6
30	287.06	104.75	87.47	889.48	1068.64	319.42	3.01	298.81	−5	+3
31	287.41	104.86	87.82	889.58	1068.99	319.31	3.29	298.68	−6	−1
Sept. 1	287.77	104.96	88.18	889.69	1069.35	319.21	3.58	298.55	−5	−4
2	−288.13	+105.06	−88.54	+889.79	−1069.71	−319.11	− 3.86	−298.43	−3	−7
3	288.48	105.16	88.89	889.88	1070.06	319.01	4.15	298.32	0	−8
4	288.85	105.25	89.26	889.97	1070.43	318.92	4.44	298.21	+3	−7
5	289.21	105.34	89.62	890.06	1070.79	318.83	4.74	298.10	+5	−4
6	289.58	105.42	89.99	890.14	1071.16	318.75	5.04	298.00	+5	0
7	−289.94	+105.50	−90.35	+890.22	−1071.52	−318.67	− 5.33	−297.90	+4	+3
8	290.31	105.57	90.72	890.29	1071.89	318.60	5.64	297.82	+2	+6
9	290.68	105.64	91.09	890.36	1072.26	318.53	5.94	297.73	−2	+7
10	291.05	105.70	91.46	890.42	1072.63	318.47	6.24	297.66	−5	+7
11	291.42	105.76	91.83	890.48	1073.00	318.41	6.55	297.59	−7	+5
12	−291.79	+105.82	−92.21	+890.54	−1073.37	−318.35	− 6.86	−297.52	−9	+3
13	292.16	105.87	92.58	890.59	1073.74	318.30	7.16	297.46	−8	0
14	−292.54	+105.92	−92.95	+890.64	−1074.12	−318.25	− 7.48	−297.41	−7	−3
Mittl. Ort	−279.″89	+ 78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m56		BD +89° 3 Gr. 9^m06		BD +89° 37 Gr. 10^m06		CPD −89° 38 Gr. 9^m5		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0.″01	
Sept. 14	−292.″54	+105.″92	− 92.″95	+890.″64	−1074.″12	−318.″25	− 7.″48	−297.″41	−7	−3
15	292.91	105.96	93.33	890.68	1074.49	318.21	7.79	297.36	−5	−5
16	293.29	106.00	93.71	890.72	1074.87	318.17	8.11	297.32	−2	−6
17	293.67	106.03	94.09	890.75	1075.24	318.14	8.42	297.28	+1	−6
18	294.04	106.06	94.46	890.78	1075.62	318.11	8.74	297.25	+4	−5
19	−294.42	+106.08	− 94.84	+890.80	−1076.00	−318.09	− 9.05	−297.23	+6	−4
20	294.80	106.09	95.22	890.82	1076.38	318.08	9.37	297.21	+8	−1
21	295.18	106.11	95.60	890.83	1076.75	318.06	9.69	297.20	+8	+2
22	295.56	106.11	95.98	890.84	1077.13	318.06	10.01	297.19	+7	+4
23	295.94	106.11	96.36	890.84	1077.51	318.06	10.32	297.19	+6	+6
24	−296.32	+106.11	− 96.74	+890.84	−1077.89	−318.06	−10.64	−297.20	+3	+7
25	296.70	106.10	97.12	890.83	1078.27	318.07	10.96	297.21	0	+7
26	297.08	106.09	97.50	890.82	1078.65	318.08	11.28	297.23	−3	+4
27	297.46	106.07	97.88	890.80	1079.03	318.10	11.59	297.25	−5	+1
28	297.84	106.05	98.26	890.78	1079.41	318.12	11.91	297.29	−5	−3
29	−298.22	+106.03	− 98.64	+890.76	−1079.79	−318.14	−12.23	−297.32	−3	−6
30	298.60	105.99	99.02	890.72	1080.17	318.18	12.54	297.37	−1	−7
Okt. 1	298.98	105.96	99.40	890.69	1080.55	318.21	12.86	297.42	+2	−7
2	299.36	105.92	99.78	890.65	1080.93	318.25	13.18	297.47	+5	−5
3	299.73	105.87	100.15	890.60	1081.30	318.30	13.49	297.53	+6	−2
4	−300.11	+105.82	−100.53	+890.55	−1081.68	−318.35	−13.81	−297.60	+5	+2
5	300.49	105.76	100.91	890.49	1082.06	318.41	14.12	297.67	+3	+5
6	300.86	105.70	101.29	890.43	1082.44	318.47	14.43	297.75	0	+7
7	301.24	105.64	101.66	890.37	1082.81	318.54	14.74	297.84	−4	+7
8	301.61	105.57	102.03	890.30	1083.18	318.61	15.05	297.93	−7	+6
9	−301.98	+105.49	−102.41	+890.22	−1083.56	−318.68	−15.35	−298.03	−9	+4
10	302.35	105.41	102.78	890.14	1083.93	318.76	15.65	298.13	−9	+1
11	302.72	105.33	103.15	890.06	1084.30	318.85	15.95	298.24	−8	−2
12	303.09	105.24	103.52	889.97	1084.67	318.94	16.25	298.36	−6	−5
13	303.46	105.14	103.89	889.87	1085.04	319.03	16.55	298.48	−3	−6
14	−303.82	+105.04	−104.25	+889.77	−1085.40	−319.13	−16.85	−298.61	0	−7
15	304.19	104.94	104.62	889.67	1085.77	319.24	17.14	298.74	+3	−6
16	304.55	104.83	104.98	889.56	1086.13	319.35	17.43	298.88	+5	−4
17	304.91	104.71	105.34	889.44	1086.49	319.47	17.72	299.03	+7	−2
18	305.27	104.60	105.70	889.33	1086.85	319.58	18.00	299.18	+8	+1
19	−305.63	+104.47	−106.06	+889.20	−1087.21	−319.71	−18.28	−299.33	+7	+4
20	305.98	104.34	106.41	889.07	1087.56	319.84	18.56	299.50	+6	+6
21	−306.34	+104.21	−106.77	+888.94	−1087.92	−319.97	−18.83	−299.66	+4	+7
Mittl. Ort	−279.″89	+ 78.″84	−80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0″.01	
Okt. 21	−306″.34	+104″.21	−106″.77	+888″.94	−1087″.92	−319″.97	−18″.83	−299″.66	+ 4	+7
22	306.69	104.08	107.12	888.81	1088.27	320.10	19.11	299.83	+ 1	+7
23	307.04	103.93	107.47	888.66	1088.62	320.25	19.38	300.01	− 2	+5
24	307.38	103.79	107.81	888.52	1088.96	320.39	19.65	300.19	− 4	+2
25	307.73	103.64	108.16	888.37	1089.31	320.54	19.91	300.38	− 5	−1
26	−308.07	+103.48	−108.50	+888.21	−1089.65	−320.70	−20.17	−300.57	− 4	−5
27	308.41	103.32	108.84	888.05	1089.99	320.86	20.43	300.77	− 1	−7
28	308.75	103.16	109.18	887.89	1090.33	321.02	20.68	300.97	+ 2	−8
29	309.08	102.99	109.51	887.72	1090.66	321.19	20.93	301.18	+ 5	−6
30	309.41	102.82	109.84	887.55	1090.99	321.37	21.17	301.40	+ 6	−4
31	−309.74	+102.64	−110.17	+887.37	−1091.32	−321.54	−21.41	−301.61	+ 7	0
Nov. 1	310.06	102.46	110.49	887.19	1091.64	321.73	21.64	301.84	+ 5	+4
2	310.38	102.27	110.81	887.00	1091.96	321.91	21.87	302.07	+ 2	+6
3	310.70	102.08	111.13	886.81	1092.28	322.10	22.10	302.30	− 2	+8
4	311.02	101.89	111.45	886.62	1092.60	322.30	22.32	302.54	− 5	+7
5	−311.33	+101.69	−111.76	+886.42	−1092.91	−322.50	−22.54	−302.78	− 8	+5
6	311.64	101.49	112.07	886.22	1093.22	322.70	22.75	303.03	−10	+2
7	311.94	101.28	112.37	886.01	1093.52	322.91	22.96	303.27	− 9	−1
8	312.24	101.07	112.68	885.80	1093.82	323.12	23.16	303.53	− 8	−4
9	312.54	100.85	112.97	885.59	1094.12	323.34	23.35	303.79	− 5	−6
10	−312.83	+100.63	−113.27	+885.37	−1094.41	−323.56	−23.55	−304.05	− 2	−7
11	313.12	100.40	113.56	885.15	1094.70	323.79	23.73	304.31	+ 1	−6
12	313.41	100.17	113.85	884.92	1094.99	324.02	23.91	304.59	+ 4	−5
13	313.69	99.94	114.13	884.69	1095.27	324.25	24.09	304.86	+ 6	−3
14	313.97	99.70	114.41	884.45	1095.55	324.49	24.26	305.14	+ 7	0
15	−314.24	+ 99.46	−114.68	+884.21	−1095.82	−324.73	−24.43	−305.42	+ 7	+3
16	314.51	99.21	114.95	883.97	1096.09	324.98	24.59	305.71	+ 6	+5
17	314.77	98.97	115.21	883.72	1096.35	325.22	24.74	306.00	+ 4	+6
18	315.03	98.71	115.47	883.47	1096.61	325.48	24.89	306.29	+ 1	+7
19	315.29	98.46	115.73	883.21	1096.87	325.73	25.03	306.58	− 2	+6
20	−315.54	+ 98.20	−115.98	+882.96	−1097.12	−325.99	−25.17	−306.88	− 4	+3
21	315.79	97.94	116.23	882.69	1097.37	326.25	25.30	307.18	− 5	0
22	316.03	97.67	116.47	882.43	1097.61	326.52	25.43	307.48	− 4	−3
23	316.27	97.40	116.71	882.16	1097.85	326.79	25.55	307.78	− 2	−6
24	316.50	97.13	116.94	881.89	1098.08	327.06	25.66	308.09	0	−7
25	−316.73	+ 96.85	−117.17	+881.61	−1098.31	−327.34	−25.77	−308.40	+ 3	−7
26	316.95	96.57	117.39	881.33	1098.53	327.62	25.87	308.71	+ 6	−5
27	−317.16	+ 96.29	−117.60	+881.05	−1098.74	−327.90	−25.96	−309.03	+ 7	−2
Mittl. Ort	−279″.89	+ 78″.84	−80″.17	+863″.56	−1061″.57	−345″.23	−26″.22	−307″.43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1940

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m56		BD +89° 3 Gr. 9^m06		BD +89° 37 Gr. 10^m06		CPD −89° 38 Gr. 9^m5		Kurzperiod. Nutationsgl.*)	
1940	x	y	x	y	x	y	x	y	in 0.″01	
Nov. 27	−317.″16	+96.″29	−117.″60	+881.″05	−1098.″74	−327.″90	−25.″96	−309.″03	+7	−2
28	317.37	96.01	117.81	880.77	1098.95	328.19	26.05	309.34	+7	+2
29	317.58	95.72	118.02	880.48	1099.16	328.48	26.13	309.66	+4	+5
30	317.78	95.43	118.22	880.19	1099.36	328.77	26.20	309.98	+1	+7
Dez. 1	317.97	95.14	118.41	879.90	1099.55	329.06	26.27	310.30	−3	+7
2	−318.16	+94.84	−118.60	+879.60	−1099.74	−329.36	−26.34	−310.63	−6	+6
3	318.35	94.54	118.79	879.30	1099.93	329.66	26.40	310.95	−9	+3
4	318.53	94.24	118.97	879.00	1100.11	329.96	26.45	311.28	−9	0
5	318.70	93.94	119.14	878.70	1100.28	330.27	26.50	311.61	−8	−3
6	318.87	93.63	119.31	878.39	1100.45	330.57	26.53	311.94	−6	−6
7	−319.03	+93.32	−119.47	+878.08	−1100.61	−330.88	−26.57	−312.27	−3	−7
8	319.19	93.01	119.63	877.77	1100.77	331.19	26.59	312.60	0	−7
9	319.34	92.70	119.78	877.46	1100.92	331.51	26.61	312.93	+3	−6
10	319.48	92.38	119.92	877.14	1101.06	331.82	26.62	313.26	+5	−4
11	319.62	92.07	120.06	876.83	1101.20	332.14	26.63	313.60	+7	−1
12	−319.75	+91.75	−120.19	+876.51	−1101.33	−332.46	−26.62	−313.94	+7	+2
13	319.88	91.43	120.32	876.19	1101.46	332.78	26.62	314.27	+6	+4
14	320.00	91.11	120.44	875.87	1101.58	333.10	26.60	314.61	+4	+6
15	320.11	90.79	120.56	875.55	1101.70	333.43	26.58	314.95	+2	+7
16	320.22	90.46	120.67	875.22	1101.80	333.75	26.55	315.28	−1	+6
17	−320.32	+90.13	−120.77	+874.90	−1101.91	−334.08	−26.52	−315.62	−4	+4
18	320.41	89.81	120.86	874.57	1102.00	334.41	26.48	315.95	−5	+1
19	320.50	89.48	120.95	874.24	1102.09	334.74	26.43	316.29	−5	−2
20	320.58	89.15	121.04	873.92	1102.17	335.07	26.38	316.62	−4	−5
21	320.66	88.82	121.11	873.59	1102.25	335.40	26.32	316.96	−1	−7
22	−320.73	+88.49	−121.18	+873.25	−1102.31	−335.73	−26.25	−317.29	+2	−7
23	320.79	88.15	121.24	872.92	1102.38	336.07	26.18	317.63	+5	−6
24	320.85	87.82	121.30	872.59	1102.43	336.40	26.10	317.96	+7	−3
25	320.90	87.48	121.35	872.25	1102.48	336.74	26.01	318.29	+7	0
26	320.95	87.15	121.40	871.92	1102.53	337.07	25.92	318.62	+6	+4
27	−320.98	+86.81	−121.43	+871.58	−1102.56	−337.41	−25.82	−318.95	+3	+6
28	321.01	86.48	121.46	871.25	1102.59	337.75	25.72	319.28	−1	+7
29	321.04	86.14	121.49	870.92	1102.62	338.08	25.61	319.60	−4	+7
30	321.06	85.81	121.51	870.58	1102.64	338.42	25.49	319.93	−7	+5
31	321.07	85.47	121.52	870.25	1102.65	338.76	25.37	320.25	−9	+2
32	−321.07	+85.14	−121.52	+869.92	−1102.65	−339.09	−25.24	−320.58	−9	−2
Mittl. Ort	−279.″89	+78.″84	− 80.″17	+863.″56	−1061.″57	−345.″23	−26.″22	−307.″43		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34213 + 0.00034\,T) \sin \Omega + 0.00415 \sin 2\Omega - 0.02525 \sin 2L_{\odot}$$
$$+ 0.00250 \sin M_{\odot} - 0.00099 \sin (2L_{\odot} + M_{\odot}) + 0.00042 \sin (2L_{\odot} - M_{\odot})$$
$$+ 0.00024 \sin (2L_{\odot} - \Omega) + 0.00010 \sin (2L_{☾} - 2M_{☾} - \Omega)$$
$$+ 0.00008 \sin (2L_{\odot} - 2L_{☾} + 2M_{☾})$$

$$A' = - 0.00405 \sin 2L_{☾} + 0.00135 \sin M_{☾} - 0.00067 \sin (2L_{☾} - \Omega)$$
$$- 0.00052 \sin (2L_{☾} + M_{☾}) + 0.00030 \sin (2L_{☾} - 2L_{\odot} - M_{☾})$$
$$+ 0.00022 \sin (2L_{☾} - M_{☾}) + 0.00012 \sin (2L_{☾} - 2L_{\odot})$$
$$+ 0.00012 \sin (M_{☾} + \Omega) + 0.00012 \sin (M_{☾} - \Omega)$$
$$- 0.00010 \sin (4L_{☾} - 2L_{\odot} - M_{☾}) - 0.00008 \sin (2L_{☾} + M_{☾} - \Omega)$$

$$B = - (9''210 + 0''001\,T) \cos \Omega + 0''090 \cos 2\Omega - 0''551 \cos 2L_{\odot}$$
$$- 0''022 \cos (2L_{\odot} + M_{\odot}) + 0''009 \cos (2L_{\odot} - M_{\odot})$$
$$+ 0''007 \cos (2L_{\odot} - \Omega) + 0''003 \cos (2L_{☾} - 2M_{☾} - \Omega)$$

$$B' = - 0''089 \cos 2L_{☾} - 0''018 \cos (2L_{☾} - \Omega) - 0''011 \cos (2L_{☾} + M_{☾})$$
$$+ 0''005 \cos (2L_{☾} - M_{☾}) + 0''003 \cos (M_{☾} + \Omega) - 0''003 \cos (M_{☾} - \Omega)$$
$$- 0''002 \cos (4L_{☾} - 2L_{\odot} - M_{☾}) - 0''002 \cos (2L_{☾} + M_{☾} - \Omega)$$

$$C = - 20''47 \cos \odot \cos \varepsilon$$
$$D = - 20''47 \sin \odot$$
$$E = - (0^s0029 - 0^s0004\,T) \sin \Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren,
t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres:
$t = 0$ für 1940 Januar 1^d5014 Welt-Zeit.

$a = m + {}^1/_{15}\, n \sin \alpha \operatorname{tg} \delta$	$a' = n \cos \alpha$
$b = {}^1/_{15} \cos \alpha \operatorname{tg} \delta$	$b' = - \sin \alpha$
$c = {}^1/_{15} \cos \alpha \sec \delta$	$c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$
$d = {}^1/_{15} \sin \alpha \sec \delta$	$d' = \cos \alpha \sin \delta$

Für 1940.0 gilt: $m = + 3^s0731$, $n = + 20''043$, $\varepsilon = 23^\circ\, 26'\, 49''52$

$$\alpha_{\text{app.}} = \alpha_{1940.0} + t\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{\text{app.}} = \delta_{1940.0} + t\mu_\delta + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination.

Setzt man

$f = mA + E$	$f' = mA'$	$i = C \operatorname{tg} \varepsilon$
$g \sin G = B$	$g' \sin G' = B'$	$h \sin H = C$
$g \cos G = nA$	$g' \cos G' = nA'$	$h \cos H = D,$

so wird:

$$\alpha_{\text{app.}} = \alpha_{1940.0} + t\mu_\alpha + f + {}^1/_{15}\, g \sin (G + \alpha) \operatorname{tg} \delta + {}^1/_{15}\, h \sin (H + \alpha) \sec \delta$$
$$+ [f' + {}^1/_{15}\, g' \sin (G' + \alpha) \operatorname{tg} \delta]$$

$$\delta_{\text{app.}} = \delta_{1940.0} + t\mu_\delta + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta$$
$$+ [g' \cos (G' + \alpha)]$$

für 12h Sternzeit Greenwich

Welt-Zeit		*t*	log *A*	log *B*	log *C*	log *D*	*E*
1940		h					s
Jan.	0.2	—0.0035	9.19072	0.94973	0.45056n	1.30617	+0.0012
	10.2	+0.0238	9.27434	0.94704	0.78204n	1.28731	11
	20.2	0.0511	9.34054	0.94166	0.95880n	1.25310	11
	30.1	0.0784	9.39317	0.93420	1.07350n	1.20101	11
Febr.	9.1	0.1057	9.43511	0.92593	1.15287n	1.12613	11
	19.1	0.1330	9.46863	0.91787	1.20809n	1.01916	+0.0010
	29.1	0.1603	9.49589	0.91153	1.24477n	0.85884	10
März	10.0	0.1876	9.51883	0.90784	1.26609n	0.57898	10
	20.0	0.2149	9.53911	0.90741	1.27365n	9.42813	10
	30.0	0.2422	9.55840	0.91057	1.26816n	0.51162n	09
April	9.0	0.2696	9.57788	0.91687	1.24949n	0.82269n	+0.0009
	18.9	0.2969	9.59847	0.92572	1.21669n	0.99273n	09
	28.9	0.3242	9.62066	0.93596	1.16767n	1.10459n	09
Mai	8.9	0.3515	9.64445	0.94665	1.09844n	1.18281n	09
	18.8	0.3788	9.66954	0.95660	1.00134n	1.23812n	08
	28.8	0.4061	9.69545	0.96506	0.86022n	1.27605n	+0.0008
Juni	7.8	0.4334	9.72144	0.97128	0.63104n	1.29957n	08
	17.8	0.4607	9.74686	0.97488	0.07518n	1.31025n	08
	27.7	0.4880	9.77109	0.97571	0.28466	1.30882n	07
Juli	7.7	0.5153	9.79364	0.97382	0.69767	1.29526n	07
	17.7	0.5426	9.81415	0.96956	0.89807	1.26869n	+0.0007
	27.7	0.5699	9.83243	0.96332	1.02608	1.22747n	07
Aug.	6.6	0.5972	9.84842	0.95578	1.11521	1.16826n	06
	16.6	0.6245	9.86221	0.94797	1.17909	1.08504n	06
	26.6	0.6518	9.87405	0.94086	1.22417	0.96586n	06
Sept.	5.5	0.6791	9.88430	0.93531	1.25382	0.78190n	+0.0006
	15.5	0.7064	9.89341	0.93227	1.26996	0.42684n	05
	25.5	0.7337	9.90192	0.93227	1.27335	9.90580	05
Okt.	5.5	0.7610	9.91037	0.93546	1.26399	0.63104	05
	15.4	0.7883	9.91932	0.94161	1.24110	0.88315	05
	25.4	0.8156	9.92917	0.95002	1.20284	1.03334	+0.0005
Nov.	4.4	0.8429	9.94019	0.95980	1.14600	1.13500	04
	14.4	0.8702	9.95246	0.96974	1.06461	1.20666	04
	24.3	0.8975	9.96584	0.97859	0.94670	1.25665	04
Dez.	4.3	0.9249	9.98006	0.98565	0.76350	1.28930	04
	14.3	0.9522	9.99465	0.99007	0.40943	1.30700	+0.0003
	24.2	0.9795	0.00918	0.99140	9.87622n	1.31076	03
	34.2	1.0068	0.02312	0.98958	0.60767n	1.30077	+0.0003

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1940	h	a	s		h m		h m		″
Jan. 0	6.6	−0.0041	+0.475	0.9745	4 43.4	1.3104	23 29.1	0.0766n	−1.193
1	6.6	−0.0014	0.486	0.9754	4 41.8	1.3102	23 25.3	0.1258n	1.336
2	6.7	+0.0014	0.496	0.9763	4 40.3	1.3100	23 21.6	0.1700n	1.479
3	6.8	0.0041	0.506	0.9773	4 38.7	1.3098	23 17.8	0.2098n	1.621
4	6.8	0.0068	0.517	0.9782	4 37.2	1.3095	23 14.0	0.2460n	1.762
5	6.9	0.0096	0.527	0.9790	4 35.6	1.3092	23 10.3	0.2794n	1.903
6	7.0	0.0123	+0.537	0.9799	4 34.1	1.3089	23 6.5	0.3105n	−2.044
7	7.0	0.0151	0.547	0.9808	4 32.6	1.3086	23 2.7	0.3393n	2.184
8	7.1	0.0178	0.557	0.9816	4 31.1	1.3083	22 58.9	0.3660n	2.323
9	7.2	0.0205	0.567	0.9824	4 29.6	1.3080	22 55.1	0.3913n	2.462
10	7.2	0.0233	0.577	0.9832	4 28.1	1.3076	22 51.3	0.4148n	2.599
11	7.3	0.0260	0.587	0.9840	4 26.6	1.3072	22 47.5	0.4371n	2.736
12	7.4	0.0287	+0.597	0.9848	4 25.1	1.3068	22 43.7	0.4582n	−2.872
13	7.4	0.0315	0.607	0.9855	4 23.6	1.3064	22 39.9	0.4781n	3.007
14	7.5	0.0342	0.616	0.9863	4 22.1	1.3059	22 36.1	0.4972n	3.142
15	7.6	0.0370	0.626	0.9870	4 20.7	1.3055	22 32.2	0.5152n	3.275
16	7.6	0.0397	0.635	0.9877	4 19.2	1.3050	22 28.4	0.5324n	3.407
17	7.7	0.0424	0.645	0.9884	4 17.8	1.3045	22 24.5	0.5488n	3.538
18	7.8	0.0452	+0.654	0.9891	4 16.4	1.3040	22 20.7	0.5643n	−3.667
19	7.8	0.0479	0.664	0.9898	4 15.0	1.3035	22 16.8	0.5793n	3.796
20	7.9	0.0506	0.673	0.9905	4 13.6	1.3030	22 13.0	0.5936n	3.923
21	7.9	0.0534	0.682	0.9911	4 12.2	1.3025	22 9.1	0.6075n	4.050
22	8.0	0.0561	0.691	0.9918	4 10.8	1.3019	22 5.2	0.6207n	4.175
23	8.1	0.0589	0.700	0.9924	4 9.5	1.3013	22 1.3	0.6333n	4.298
24	8.1	0.0616	+0.709	0.9930	4 8.1	1.3007	21 57.4	0.6454n	−4.420
25	8.2	0.0643	0.718	0.9936	4 6.8	1.3001	21 53.5	0.6572n	4.541
26	8.3	0.0671	0.726	0.9942	4 5.5	1.2995	21 49.5	0.6684n	4.660
27	8.3	0.0698	0.735	0.9948	4 4.2	1.2989	21 45.6	0.6792n	4.778
28	8.4	0.0726	0.743	0.9954	4 2.9	1.2983	21 41.6	0.6897n	4.894
29	8.5	0.0753	0.752	0.9960	4 1.6	1.2977	21 37.7	0.6998n	5.009
30	8.5	0.0780	+0.760	0.9966	4 0.3	1.2971	21 33.7	0.7094n	−5.121
31	8.6	0.0808	0.768	0.9971	3 59.0	1.2964	21 29.7	0.7188n	5.233
Febr. 1	8.7	0.0835	0.776	0.9976	3 57.8	1.2958	21 25.7	0.7279n	5.344
2	8.7	0.0862	0.784	0.9982	3 56.6	1.2951	21 21.7	0.7366n	5.452
3	8.8	0.0890	0.792	0.9987	3 55.4	1.2945	21 17.7	0.7449n	5.558
4	8.9	0.0917	0.800	0.9993	3 54.2	1.2938	21 13.7	0.7530n	5.663
5	8.9	0.0945	+0.807	0.9998	3 53.0	1.2932	21 9.7	0.7608n	−5.765
6	9.0	0.0972	0.815	1.0004	3 51.9	1.2925	21 5.6	0.7683n	5.866
7	9.1	0.0999	0.823	1.0009	3 50.7	1.2919	21 1.5	0.7756n	5.965
8	9.1	0.1027	0.830	1.0014	3 49.6	1.2912	20 57.5	0.7826n	6.062
9	9.2	0.1054	0.837	1.0020	3 48.5	1.2905	20 53.4	0.7894n	6.157
10	9.3	0.1081	+0.844	1.0025	3 47.4	1.2899	20 49.3	0.7959n	−6.251

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1940	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26' "	"	" in 0.01	in 0.001	
Jan. 0	+ 8	+8	20.6	−0.21	+7.98	+13	49.52	−8.91	+6	41	89
1	+ 3	8	19.1	−0.07	8.02	+ 6	49.52	8.91	+7	41	89
2	− 2	7	17.4	+0.07	8.05	− 3	49.52	8.90	+7	41	89
3	− 6	6	15.5	0.21	8.08	− 9	49.51	8.90	+5	41	89
4	− 8	5	13.2	0.34	8.11	−13	49.51	8.89	+2	41	89
5	− 8	5	10.7	0.48	8.14	−13	49.51	8.89	−2	42	89
6	− 5	+6	8.3	+0.62	+8.16	− 9	49.51	−8.88	−5	42	89
7	− 1	7	6.5	0.76	8.19	− 2	49.51	8.88	−7	42	89
8	+ 3	8	5.0	0.89	8.22	+ 5	49.51	8.87	−7	42	89
9	+ 7	8	3.6	1.03	8.24	+12	49.51	8.86	−6	42	89
10	+10	8	2.3	1.17	8.27	+16	49.51	8.86	−4	42	89
11	+11	8	0.9	1.31	8.29	+19	49.50	8.85	−2	42	89
12	+11	+7	23.3	+1.44	+8.32	+18	49.50	−8.84	+1	42	88
13	+ 8	7	21.6	1.58	8.34	+14	49.50	8.83	+4	42	88
14	+ 5	7	19.9	1.72	8.36	+ 8	49.50	8.82	+6	42	88
15	0	7	18.1	1.86	8.38	+ 1	49.50	8.81	+7	42	88
16	− 5	8	16.4	2.00	8.40	− 8	49.50	8.80	+7	42	88
17	− 9	8	14.8	2.13	8.41	−15	49.50	8.78	+6	42	88
18	−13	+9	13.4	+2.27	+8.43	−21	49.49	−8.77	+3	43	88
19	−14	9	12.0	2.41	8.44	−24	49.49	8.76	0	43	88
20	−14	9	10.6	2.55	8.46	−23	49.49	8.75	−3	43	88
21	−11	9	9.3	2.68	8.47	−17	49.49	8.73	−6	43	88
22	− 6	8	7.7	2.82	8.48	− 9	49.49	8.72	−7	43	87
23	0	7	5.8	2.96	8.49	+ 1	49.49	8.70	−7	43	87
24	+ 6	+6	3.6	+3.10	+8.49	+10	49.49	−8.69	−5	43	87
25	+ 9	6	1.1	3.23	8.50	+15	49.49	8.67	−2	43	87
26	+11	7	22.9	3.37	8.50	+17	49.48	8.66	+2	43	87
27	+ 9	8	21.2	3.51	8.51	+15	49.48	8.64	+5	43	87
28	+ 5	8	19.6	3.65	8.51	+ 8	49.48	8.63	+7	43	87
29	0	7	18.1	3.78	8.51	0	49.48	8.61	+7	43	87
30	− 4	+6	16.4	+3.92	+8.51	− 7	49.48	−8.60	+6	43	86
31	− 7	5	14.1	4.06	8.50	−11	49.48	8.58	+3	43	86
Febr. 1	− 7	5	11.3	4.20	8.50	−12	49.48	8.57	−1	43	86
2	− 6	6	8.8	4.33	8.49	− 9	49.48	8.55	−4	43	86
3	− 2	7	6.7	4.47	8.48	− 3	49.47	8.53	−7	43	86
4	+ 3	8	5.2	4.61	8.47	+ 4	49.47	8.52	−8	44	86
5	+ 7	+8	3.9	+4.75	+8.46	+11	49.47	−8.50	−7	44	86
6	+10	8	2.5	4.88	8.45	+16	49.47	8.48	−5	44	86
7	+12	8	1.2	5.02	8.43	+19	49.47	8.47	−2	44	85
8	+11	7	23.8	5.16	8.41	+19	49.47	8.45	0	44	85
9	+ 9	7	22.3	5.30	8.39	+16	49.47	8.43	+3	44	85
10	+ 6	+7	20.5	+5.43	+8.37	+10	49.47	−8.42	+5	44	85

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1940	h	a	s		h m		h m		″
Febr. 10	9.3	0.1081	+0.844	1.0025	3 47.4	1.2899	20 49.3	0.7959*n*	−6.251
11	9.3	0.1109	0.851	1.0030	3 46.3	1.2892	20 45.2	0.8022*n*	6.342
12	9.4	0.1136	0.858	1.0035	3 45.2	1.2886	20 41.1	0.8083*n*	6.431
13	9.5	0.1164	0.865	1.0040	3 44.2	1.2879	20 37.0	0.8141*n*	6.518
14	9.5	0.1191	0.872	1.0045	3 43.2	1.2873	20 32.8	0.8197*n*	6.603
15	9.6	0.1218	0.879	1.0050	3 42.2	1.2866	20 28.7	0.8252*n*	6.687
16	9.7	0.1246	+0.885	1.0055	3 41.2	1.2860	20 24.5	0.8304*n*	−6.767
17	9.7	0.1273	0.892	1.0060	3 40.2	1.2854	20 20.4	0.8354*n*	6.846
18	9.8	0.1300	0.898	1.0066	3 39.2	1.2847	20 16.2	0.8403*n*	6.923
19	9.9	0.1328	0.905	1.0071	3 38.2	1.2841	20 12.0	0.8449*n*	6.997
20	9.9	0.1355	0.911	1.0076	3 37.3	1.2835	20 7.8	0.8494*n*	7.069
21	10.0	0.1383	0.917	1.0081	3 36.4	1.2829	20 3.6	0.8536*n*	7.139
22	10.1	0.1410	+0.923	1.0086	3 35.5	1.2824	19 59.4	0.8578*n*	−7.207
23	10.1	0.1437	0.929	1.0092	3 34.7	1.2818	19 55.2	0.8617*n*	7.273
24	10.2	0.1465	0.935	1.0098	3 33.8	1.2813	19 50.9	0.8655*n*	7.337
25	10.2	0.1492	0.941	1.0103	3 32.9	1.2807	19 46.7	0.8691*n*	7.398
26	10.3	0.1520	0.946	1.0109	3 32.1	1.2802	19 42.4	0.8726*n*	7.457
27	10.4	0.1547	0.952	1.0114	3 31.3	1.2797	19 38.2	0.8758*n*	7.513
28	10.4	0.1574	+0.958	1.0120	3 30.5	1.2792	19 33.9	0.8789*n*	−7.567
29	10.5	0.1602	0.963	1.0126	3 29.7	1.2787	19 29.7	0.8819*n*	7.619
März 1	10.6	0.1629	0.969	1.0132	3 28.9	1.2783	19 25.4	0.8847*n*	7.668
2	10.6	0.1656	0.974	1.0138	3 28.2	1.2778	19 21.1	0.8873*n*	7.715
3	10.7	0.1684	0.980	1.0144	3 27.5	1.2774	19 16.8	0.8898*n*	7.759
4	10.8	0.1711	0.985	1.0151	3 26.8	1.2770	19 12.5	0.8922*n*	7.801
5	10.8	0.1739	+0.990	1.0157	3 26.1	1.2767	19 8.2	0.8944*n*	−7.841
6	10.9	0.1766	0.995	1.0164	3 25.4	1.2763	19 3.9	0.8964*n*	7.878
7	11.0	0.1793	1.000	1.0171	3 24.8	1.2760	18 59.6	0.8983*n*	7.913
8	11.0	0.1821	1.005	1.0177	3 24.1	1.2757	18 55.3	0.9001*n*	7.945
9	11.1	0.1848	1.010	1.0184	3 23.5	1.2754	18 50.9	0.9017*n*	7.975
10	11.2	0.1875	1.015	1.0192	3 22.9	1.2751	18 46.6	0.9033*n*	8.003
11	11.2	0.1903	+1.020	1.0199	3 22.3	1.2748	18 42.3	0.9047*n*	−8.029
12	11.3	0.1930	1.025	1.0206	3 21.7	1.2746	18 38.0	0.9058*n*	8.051
13	11.4	0.1958	1.030	1.0214	3 21.1	1.2744	18 33.6	0.9069*n*	8.071
14	11.4	0.1985	1.035	1.0222	3 20.6	1.2742	18 29.3	0.9079*n*	8.089
15	11.5	0.2012	1.040	1.0230	3 20.0	1.2741	18 24.9	0.9088*n*	8.105
16	11.6	0.2040	1.045	1.0238	3 19.5	1.2740	18 20.6	0.9094*n*	8.118
17	11.6	0.2067	+1.050	1.0247	3 19.0	1.2739	18 16.3	0.9100*n*	−8.128
18	11.7	0.2094	1.055	1.0256	3 18.5	1.2738	18 12.0	0.9104*n*	8.136
19	11.8	0.2122	1.059	1.0264	3 18.0	1.2737	18 7.6	0.9107*n*	8.142
20	11.8	0.2149	1.064	1.0273	3 17.5	1.2737	18 3.3	0.9109*n*	8.145
21	11.9	0.2177	1.069	1.0282	3 17.0	1.2737	17 59.0	0.9109*n*	8.146
22	12.0	0.2204	+1.074	1.0292	3 16.6	1.2737	17 54.6	0.9109*n*	−8.145

Tag	f′	g′	G′	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
	0h Welt-Zeit										
1940	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26′ "	"	" in 0.01	in 0.001	
Febr. 10	+ 6	+7	20.5	+ 5.43	+8.37	+10	49.47	−8.42	+5	44	85
11	+ 2	7	18.7	5.57	8.35	+ 3	49.46	8.40	+7	44	85
12	− 3	7	17.0	5.71	8.33	− 5	49.46	8.39	+7	44	85
13	− 8	8	15.4	5.85	8.31	−12	49.46	8.37	+6	44	85
14	−12	9	13.9	5.99	8.28	−19	49.46	8.35	+4	44	85
15	−14	9	12.5	6.12	8.25	−23	49.46	8.34	+1	44	84
16	−14	+9	11.2	+ 6.26	+8.22	−23	49.46	−8.32	−2	44	84
17	−12	9	10.0	6.40	8.19	−20	49.46	8.31	−5	44	84
18	− 8	9	8.6	6.54	8.16	−13	49.46	8.29	−7	44	84
19	− 3	8	6.9	6.67	8.12	− 4	49.45	8.28	−7	44	84
20	+ 3	7	4.9	6.81	8.09	+ 5	49.45	8.27	−6	44	84
21	+ 7	6	2.3	6.95	8.05	+12	49.45	8.25	−3	44	84
22	+10	+6	23.7	+ 7.09	+8.01	+16	49.45	−8.24	+1	44	84
23	+ 9	7	21.7	7.22	7.97	+15	49.45	8.23	+4	45	83
24	+ 6	8	20.0	7.36	7.93	+10	49.45	8.21	+7	45	83
25	+ 2	8	18.5	7.50	7.89	+ 3	49.45	8.20	+8	45	83
26	− 3	7	17.0	7.64	7.85	− 5	49.44	8.19	+7	45	83
27	− 6	6	14.9	7.77	7.80	−10	49.44	8.18	+4	45	83
28	− 7	+5	12.3	+ 7.91	+7.76	−12	49.44	−8.17	0	45	83
29	− 6	5	9.4	8.05	7.71	−10	49.44	8.16	−3	45	83
März 1	− 3	6	7.1	8.19	7.66	− 5	49.44	8.15	−6	45	83
2	+ 2	8	5.4	8.32	7.61	+ 3	49.44	8.14	−7	45	83
3	+ 6	8	4.1	8.46	7.56	+10	49.44	8.13	−7	45	83
4	+10	9	2.8	8.60	7.51	+16	49.44	8.12	−6	45	83
5	+12	+9	1.5	+ 8.74	+7.46	+20	49.43	−8.12	−3	45	82
6	+12	8	0.2	8.88	7.40	+20	49.43	8.11	0	45	82
7	+11	8	22.7	9.01	7.35	+18	49.43	8.10	+3	45	82
8	+ 8	7	21.1	9.15	7.30	+13	49.43	8.10	+5	45	82
9	+ 4	7	19.4	9.29	7.24	+ 6	49.43	8.09	+6	46	82
10	− 1	7	17.6	9.43	7.19	− 2	49.43	8.09	+7	46	82
11	− 6	+7	16.0	+ 9.56	+7.13	− 9	49.43	−8.08	+6	46	82
12	−10	8	14.4	9.70	7.07	−16	49.43	8.08	+5	46	82
13	−13	8	12.9	9.84	7.02	−21	49.42	8.08	+2	46	82
14	−14	9	11.6	9.98	6.96	−22	49.42	8.08	−1	46	82
15	−13	9	10.4	10.11	6.90	−21	49.42	8.08	−4	46	82
16	−10	9	9.0	10.25	6.84	−16	49.42	8.08	−6	46	82
17	− 5	+8	7.6	+10.39	+6.78	− 8	49.42	−8.08	−7	46	82
18	0	7	5.9	10.53	6.72	0	49.42	8.08	−7	46	82
19	+ 5	5	3.6	10.66	6.66	+ 8	49.42	8.08	−4	46	82
20	+ 8	5	0.8	10.80	6.61	+13	49.42	8.08	−1	46	82
21	+ 8	6	22.2	10.94	6.55	+14	49.41	8.08	+3	47	82
22	+ 6	+7	20.2	+11.08	+6.49	+10	49.41	−8.09	+6	47	82

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1940	h	s	s		h m		h m		"
März 22	12.0	0.2204	+1.074	1.0292	3 16.6	1.2737	17 54.6	0.9109n	−8.145
23	12.0	0.2231	1.079	1.0301	3 16.1	1.2737	17 50.3	0.9106n	8.140
24	12.1	0.2259	1.083	1.0311	3 15.7	1.2738	17 46.0	0.9103n	8.133
25	12.2	0.2286	1.088	1.0321	3 15.2	1.2739	17 41.7	0.9098n	8.124
26	12.2	0.2313	1.093	1.0331	3 14.8	1.2740	17 37.4	0.9091n	8.112
27	12.3	0.2341	1.098	1.0341	3 14.4	1.2741	17 33.1	0.9084n	8.098
28	12.4	0.2368	+1.102	1.0352	3 14.0	1.2743	17 28.8	0.9075n	−8.082
29	12.4	0.2396	1.107	1.0363	3 13.6	1.2745	17 24.5	0.9065n	8.063
30	12.5	0.2423	1.112	1.0375	3 13.2	1.2747	17 20.2	0.9054n	8.042
31	12.5	0.2450	1.117	1.0386	3 12.9	1.2749	17 15.9	0.9041n	8.019
April 1	12.6	0.2478	1.122	1.0397	3 12.5	1.2752	17 11.6	0.9027n	7.993
2	12.7	0.2505	1.127	1.0409	3 12.2	1.2755	17 7.3	0.9011n	7.964
3	12.7	0.2533	+1.132	1.0421	3 11.8	1.2758	17 3.1	0.8995n	−7.934
4	12.8	0.2560	1.137	1.0433	3 11.5	1.2761	16 58.8	0.8977n	7.901
5	12.9	0.2587	1.142	1.0445	3 11.1	1.2764	16 54.6	0.8958n	7.866
6	12.9	0.2615	1.148	1.0458	3 10.8	1.2768	16 50.4	0.8937n	7.828
7	13.0	0.2642	1.153	1.0471	3 10.5	1.2772	16 46.1	0.8914n	7.788
8	13.1	0.2669	1.158	1.0484	3 10.1	1.2776	16 41.9	0.8891n	7.746
9	13.1	0.2697	+1.163	1.0497	3 9.8	1.2780	16 37.7	0.8866n	−7.702
10	13.2	0.2724	1.169	1.0511	3 9.5	1.2784	16 33.5	0.8839n	7.655
11	13.3	0.2752	1.174	1.0524	3 9.2	1.2788	16 29.3	0.8812n	7.606
12	13.3	0.2779	1.180	1.0538	3 8.9	1.2793	16 25.2	0.8782n	7.555
13	13.4	0.2806	1.185	1.0552	3 8.5	1.2798	16 21.0	0.8752n	7.502
14	13.5	0.2834	1.191	1.0567	3 8.2	1.2803	16 16.9	0.8720n	7.447
15	13.5	0.2861	+1.196	1.0581	3 7.9	1.2808	16 12.7	0.8686n	−7.390
16	13.6	0.2888	1.202	1.0596	3 7.6	1.2813	16 8.6	0.8651n	7.330
17	13.7	0.2916	1.208	1.0611	3 7.3	1.2818	16 4.5	0.8615n	7.269
18	13.7	0.2943	1.214	1.0626	3 7.0	1.2824	16 0.4	0.8576n	7.205
19	13.8	0.2971	1.220	1.0641	3 6.7	1.2830	15 56.3	0.8536n	7.139
20	13.9	0.2998	1.226	1.0656	3 6.4	1.2835	15 52.3	0.8495n	7.071
21	13.9	0.3025	+1.232	1.0672	3 6.1	1.2841	15 48.2	0.8452n	−7.001
22	14.0	0.3053	1.238	1.0687	3 5.8	1.2847	15 44.1	0.8407n	6.929
23	14.1	0.3080	1.245	1.0703	3 5.5	1.2853	15 40.1	0.8361n	6.856
24	14.1	0.3107	1.251	1.0719	3 5.2	1.2859	15 36.1	0.8312n	6.780
25	14.2	0.3135	1.257	1.0735	3 4.8	1.2865	15 32.1	0.8262n	6.702
26	14.3	0.3162	1.264	1.0751	3 4.5	1.2871	15 28.1	0.8211n	6.623
27	14.3	0.3190	+1.271	1.0768	3 4.2	1.2877	15 24.1	0.8156n	−6.541
28	14.4	0.3217	1.277	1.0785	3 3.9	1.2883	15 20.1	0.8100n	6.457
29	14.5	0.3244	1.284	1.0801	3 3.6	1.2890	15 16.2	0.8043n	6.372
30	14.5	0.3272	1.291	1.0818	3 3.2	1.2896	15 12.2	0.7984n	6.286
Mai 1	14.6	0.3299	1.298	1.0835	3 2.9	1.2902	15 8.3	0.7922n	6.197
2	14.7	0.3327	+1.305	1.0852	3 2.6	1.2909	15 4.4	0.7858n	−6.107

Tag	0h Welt-Zeit f′	g′	G′	Allgemeine Präzession seit 1940.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
1940	in 0.001 s	in 0.01″	h	″	″	in 0.01″	23°26′ ″	″	in 0.01″	in 0.001	
März 22	+ 6	+7	20.2	+11.08	+6.49	+10	49.41	−8.09	+6	47	82
23	+ 2	8	18.7	11.21	6.43	+ 4	49.41	8.09	+8	47	82
24	− 2	8	17.2	11.35	6.37	− 4	49.41	8.10	+7	47	82
25	− 6	7	15.6	11.49	6.31	−10	49.41	8.10	+5	47	82
26	− 8	6	13.3	11.63	6.25	−13	49.41	8.11	+2	47	82
27	− 8	5	10.6	11.77	6.19	−12	49.41	8.11	−2	47	82
28	− 5	+6	7.9	+11.90	+6.13	− 7	49.40	−8.12	−5	47	82
29	0	7	6.0	12.04	6.08	0	49.40	8.13	−7	47	82
30	+ 5	8	4.4	12.18	6.02	+ 9	49.40	8.14	−8	48	82
31	+10	9	3.1	12.32	5.96	+16	49.40	8.15	−7	48	82
April 1	+12	9	1.8	12.45	5.90	+20	49.40	8.16	−4	48	82
2	+13	9	0.6	12.59	5.85	+22	49.40	8.17	−1	48	82
3	+12	+8	23.1	+12.73	+5.79	+20	49.40	−8.18	+2	48	82
4	+ 9	8	21.6	12.87	5.74	+15	49.40	8.19	+4	48	82
5	+ 5	7	20.0	13.00	5.69	+ 9	49.39	8.20	+6	48	83
6	+ 1	7	18.3	13.14	5.63	+ 1	49.39	8.22	+7	49	83
7	− 4	7	16.5	13.28	5.58	− 6	49.39	8.23	+6	49	83
8	− 8	7	14.8	13.42	5.53	−13	49.39	8.24	+5	49	83
9	−11	+8	13.4	+13.55	+5.48	−18	49.39	−8.26	+3	49	83
10	−13	8	12.0	13.69	5.43	−21	49.39	8.27	0	49	83
11	−12	8	10.6	13.83	5.38	−20	49.39	8.29	−3	49	83
12	−10	8	9.3	13.97	5.33	−16	49.39	8.30	−5	49	83
13	− 6	8	8.0	14.11	5.28	−10	49.38	8.32	−7	50	83
14	− 1	7	6.4	14.25	5.24	− 2	49.38	8.34	−7	50	83
15	+ 4	+6	4.4	+14.38	+5.19	+ 6	49.38	−8.35	−5	50	83
16	+ 7	5	1.7	14.52	5.15	+11	49.38	8.37	−2	50	83
17	+ 8	5	22.9	14.66	5.11	+13	49.38	8.39	+2	50	84
18	+ 6	6	20.7	14.80	5.07	+11	49.38	8.41	+5	50	84
19	+ 3	7	19.0	14.93	5.03	+ 5	49.38	8.43	+7	51	84
20	− 2	8	17.4	15.07	4.99	− 3	49.38	8.45	+8	51	84
21	− 6	+7	15.9	+15.21	+4.95	−10	49.37	−8.47	+6	51	84
22	− 9	7	14.1	15.35	4.92	−14	49.37	8.49	+3	51	84
23	− 9	6	11.7	15.48	4.88	−15	49.37	8.51	0	51	84
24	− 7	6	9.3	15.62	4.85	−11	49.37	8.53	−4	52	84
25	− 3	7	7.0	15.76	4.82	− 4	49.37	8.55	−7	52	84
26	+ 3	8	5.1	15.90	4.79	+ 5	49.37	8.57	−7	52	85
27	+ 8	+9	3.7	+16.03	+4.76	+13	49.37	−8.59	−7	52	85
28	+12	9	2.3	16.17	4.73	+19	49.37	8.61	−5	52	85
29	+14	9	1.0	16.31	4.70	+22	49.36	8.63	−2	53	85
30	+13	9	23.7	16.45	4.68	+22	49.36	8.65	+1	53	85
Mai 1	+11	8	22.2	16.58	4.65	+18	49.36	8.67	+4	53	85
2	+ 7	+7	20.7	+16.72	+4.63	+12	49.36	−8.70	+6	53	85

Tag		0h Welt-Zeit								
		Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1940		h	s	s		h m		h m		"
Mai	2	14.7	0.3327	+1.305	1.0852	3 2.6	1.2909	15 4.4	0.7858n	−6.107
	3	14.7	0.3354	1.312	1.0869	3 2.2	1.2915	15 0.5	0.7792n	6.015
	4	14.8	0.3381	1.319	1.0886	3 1.9	1.2921	14 56.6	0.7724n	5.921
	5	14.8	0.3409	1.326	1.0903	3 1.5	1.2928	14 52.8	0.7653n	5.825
	6	14.9	0.3436	1.334	1.0920	3 1.2	1.2934	14 48.9	0.7580n	5.728
	7	15.0	0.3463	1.341	1.0937	3 0.8	1.2940	14 45.0	0.7505n	5.630
	8	15.0	0.3491	+1.349	1.0955	3 0.4	1.2947	14 41.2	0.7427n	−5.530
	9	15.1	0.3518	1.356	1.0973	3 0.1	1.2953	14 37.4	0.7346n	5.428
	10	15.2	0.3546	1.364	1.0990	2 59.7	1.2959	14 33.6	0.7262n	5.324
	11	15.2	0.3573	1.372	1.1008	2 59.3	1.2965	14 29.8	0.7177n	5.220
	12	15.3	0.3600	1.380	1.1025	2 58.9	1.2971	14 26.0	0.7088n	5.114
	13	15.4	0.3628	1.388	1.1043	2 58.5	1.2977	14 22.2	0.6995n	5.006
	14	15.4	0.3655	+1.396	1.1061	2 58.1	1.2983	14 18.5	0.6900n	−4.898
	15	15.5	0.3682	1.404	1.1079	2 57.7	1.2989	14 14.7	0.6802n	4.788
	16	15.6	0.3710	1.412	1.1096	2 57.3	1.2995	14 11.0	0.6699n	4.676
	17	15.6	0.3737	1.421	1.1114	2 56.9	1.3000	14 7.3	0.6593n	4.563
	18	15.7	0.3765	1.429	1.1132	2 56.5	1.3006	14 3.5	0.6483n	4.449
	19	15.8	0.3792	1.438	1.1150	2 56.1	1.3012	13 59.8	0.6369n	4.334
	20	15.8	0.3819	+1.446	1.1167	2 55.6	1.3017	13 56.1	0.6251n	−4.218
	21	15.9	0.3847	1.455	1.1185	2 55.2	1.3022	13 52.5	0.6128n	4.100
	22	16.0	0.3874	1.463	1.1203	2 54.7	1.3028	13 48.8	0.6000n	3.981
	23	16.0	0.3901	1.472	1.1221	2 54.3	1.3033	13 45.1	0.5867n	3.861
	24	16.1	0.3929	1.481	1.1238	2 53.8	1.3038	13 41.5	0.5730n	3.741
	25	16.2	0.3956	1.490	1.1256	2 53.4	1.3042	13 37.8	0.5586n	3.619
	26	16.2	0.3984	+1.499	1.1274	2 52.9	1.3047	13 34.2	0.5436n	−3.496
	27	16.3	0.4011	1.508	1.1291	2 52.4	1.3051	13 30.6	0.5279n	3.372
	28	16.4	0.4038	1.517	1.1309	2 51.9	1.3056	13 27.0	0.5116n	3.248
	29	16.4	0.4066	1.526	1.1326	2 51.4	1.3060	13 23.4	0.4944n	3.122
	30	16.5	0.4093	1.535	1.1344	2 50.9	1.3064	13 19.8	0.4765n	2.996
	31	16.6	0.4121	1.545	1.1361	2 50.4	1.3068	13 16.2	0.4577n	2.869
Juni	1	16.6	0.4148	+1.554	1.1379	2 49.9	1.3072	13 12.6	0.4379n	−2.741
	2	16.7	0.4175	1.563	1.1396	2 49.4	1.3076	13 9.0	0.4170n	2.612
	3	16.8	0.4203	1.573	1.1413	2 48.9	1.3079	13 5.4	0.3950n	2.483
	4	16.8	0.4230	1.582	1.1430	2 48.4	1.3082	13 1.9	0.3716n	2.353
	5	16.9	0.4257	1.592	1.1447	2 47.8	1.3085	12 58.3	0.3469n	2.223
	6	17.0	0.4285	1.601	1.1464	2 47.3	1.3088	12 54.8	0.3204n	2.091
	7	17.0	0.4312	+1.611	1.1481	2 46.8	1.3091	12 51.2	0.2920n	−1.959
	8	17.1	0.4340	1.620	1.1498	2 46.2	1.3094	12 47.7	0.2617n	1.827
	9	17.1	0.4367	1.630	1.1514	2 45.7	1.3096	12 44.2	0.2292n	1.695
	10	17.2	0.4394	1.640	1.1531	2 45.1	1.3098	12 40.6	0.1934n	1.561
	11	17.3	0.4422	1.650	1.1547	2 44.5	1.3100	12 37.1	0.1547n	1.428
	12	17.3	0.4449	+1.659	1.1564	2 44.0	1.3102	12 33.6	0.1119n	−1.294

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1940	in 0.001 (s)	in 0.01 (")	h	"	"	in 0.01 (")	23° 26' "	"	in 0.01 (")	in 0.001	
Mai 2	+ 7	+7	20.7	+16.72	+4.63	+12	49.36	−8.70	+6	53	85
3	+ 3	7	19.0	16.86	4.61	+ 4	49.36	8.72	+7	53	85
4	− 2	7	17.2	17.00	4.59	− 4	49.36	8.74	+7	54	86
5	− 6	7	15.5	17.13	4.57	−11	49.36	8.76	+5	54	86
6	−10	7	13.8	17.27	4.55	−16	49.35	8.78	+3	54	86
7	−12	8	12.3	17.41	4.54	−19	49.35	8.80	+1	54	86
8	−12	+8	10.9	+17.55	+4.52	−19	49.35	−8.83	−2	54	86
9	−10	8	9.5	17.68	4.51	−16	49.35	8.85	−5	55	86
10	− 6	8	8.2	17.82	4.50	−10	49.35	8.87	−7	55	86
11	− 2	7	6.6	17.96	4.49	− 3	49.35	8.89	−7	55	86
12	+ 3	6	4.8	18.10	4.48	+ 5	49.35	8.91	−6	55	86
13	+ 6	5	2.5	18.23	4.47	+11	49.35	8.93	−3	56	87
14	+ 8	+5	23.9	+18.37	+4.47	+13	49.34	−8.95	0	56	87
15	+ 7	6	21.5	18.51	4.46	+12	49.34	8.97	+4	56	87
16	+ 4	7	19.6	18.65	4.46	+ 7	49.34	8.99	+6	56	87
17	0	8	17.9	18.78	4.46	0	49.34	9.01	+8	56	87
18	− 5	8	16.4	18.92	4.46	− 8	49.34	9.03	+7	57	87
19	− 8	7	14.6	19.06	4.46	−14	49.34	9.05	+4	57	87
20	−10	+7	12.6	+19.20	+4.46	−16	49.34	−9.07	+1	57	87
21	− 9	6	10.3	19.34	4.46	−14	49.34	9.09	−3	57	87
22	− 5	7	8.1	19.47	4.47	− 9	49.33	9.11	−6	58	88
23	0	7	6.1	19.61	4.47	0	49.33	9.13	−7	58	88
24	+ 5	8	4.4	19.75	4.48	+ 8	49.33	9.15	−7	58	88
25	+10	9	2.9	19.89	4.49	+16	49.33	9.16	−6	58	88
26	+13	+9	1.6	+20.02	+4.50	+21	49.33	−9.18	−4	59	88
27	+13	9	0.2	20.16	4.51	+22	49.33	9.20	0	59	88
28	+12	8	22.7	20.30	4.52	+20	49.33	9.21	+3	59	88
29	+ 9	8	21.2	20.44	4.53	+14	49.33	9.23	+5	59	88
30	+ 4	7	19.5	20.57	4.54	+ 7	49.32	9.24	+7	59	88
31	− 1	7	17.7	20.71	4.56	− 1	49.32	9.26	+7	60	88
Juni 1	− 5	+7	16.0	+20.85	+4.57	− 9	49.32	−9.27	+6	60	89
2	− 9	7	14.4	20.99	4.59	−15	49.32	9.29	+4	60	89
3	−11	8	12.8	21.12	4.60	−19	49.32	9.30	+2	60	89
4	−12	8	11.3	21.26	4.62	−20	49.32	9.32	−1	61	89
5	−11	8	9.9	21.40	4.64	−17	49.32	9.33	−4	61	89
6	− 7	8	8.4	21.54	4.66	−12	49.32	9.34	−6	61	89
7	− 3	+7	6.9	+21.67	+4.68	− 4	49.31	−9.35	−7	61	89
8	+ 2	6	5.2	21.81	4.70	+ 4	49.31	9.36	−6	62	89
9	+ 6	6	3.0	21.95	4.72	+10	49.31	9.37	−4	62	89
10	+ 9	6	0.5	22.09	4.74	+14	49.31	9.38	−1	62	89
11	+ 9	6	22.3	22.23	4.76	+14	49.31	9.39	+3	62	89
12	+ 6	+7	20.3	+22.36	+4.78	+10	49.31	−9.40	+6	63	89

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1940	h	s	s		h m		h m		"
Juni 12	17.3	0.4449	+1.659	1.1564	2 44.0	1.3102	12 33.6	0.1119n	−1.294
13	17.4	0.4476	1.669	1.1580	2 43.4	1.3104	12 30.1	0.0645n	1.160
14	17.5	0.4504	1.679	1.1596	2 42.8	1.3106	12 26.5	0.0107n	1.025
15	17.5	0.4531	1.689	1.1612	2 42.2	1.3107	12 23.0	9.9494n	0.890
16	17.6	0.4559	1.699	1.1628	2 41.7	1.3108	12 19.5	9.8779n	0.755
17	17.7	0.4586	1.709	1.1644	2 41.1	1.3109	12 16.0	9.7924n	0.620
18	17.7	0.4613	+1.718	1.1659	2 40.5	1.3110	12 12.5	9.6857n	−0.485
19	17.8	0.4641	1.728	1.1675	2 39.9	1.3110	12 9.0	9.5428n	0.349
20	17.9	0.4668	1.738	1.1690	2 39.3	1.3111	12 5.5	9.3284n	0.213
21	17.9	0.4695	1.748	1.1705	2 38.7	1.3111	12 2.0	8.8921n	−0.078
22	18.0	0.4723	1.758	1.1720	2 38.1	1.3111	11 58.5	8.7634	+0.058
23	18.1	0.4750	1.768	1.1735	2 37.5	1.3111	11 55.0	9.2878	0.194
24	18.1	0.4778	+1.778	1.1750	2 36.9	1.3111	11 51.5	9.5172	+0.329
25	18.2	0.4805	1.788	1.1764	2 36.3	1.3110	11 48.0	9.6665	0.464
26	18.3	0.4832	1.797	1.1779	2 35.7	1.3109	11 44.5	9.7774	0.599
27	18.3	0.4860	1.807	1.1793	2 35.0	1.3108	11 41.0	9.8657	0.734
28	18.4	0.4887	1.817	1.1807	2 34.4	1.3107	11 37.5	9.9390	0.869
29	18.5	0.4915	1.827	1.1821	2 33.8	1.3106	11 34.0	0.0017	1.004
30	18.5	0.4942	+1.837	1.1835	2 33.2	1.3105	11 30.5	0.0565	+1.139
Juli 1	18.6	0.4969	1.847	1.1849	2 32.5	1.3103	11 27.0	0.1048	1.273
2	18.7	0.4997	1.856	1.1863	2 31.9	1.3101	11 23.5	0.1480	1.406
3	18.7	0.5024	1.866	1.1876	2 31.3	1.3099	11 19.9	0.1872	1.539
4	18.8	0.5051	1.876	1.1890	2 30.7	1.3097	11 16.4	0.2232	1.672
5	18.9	0.5079	1.886	1.1903	2 30.0	1.3094	11 12.9	0.2565	1.805
6	18.9	0.5106	+1.895	1.1916	2 29.4	1.3092	11 9.4	0.2871	+1.937
7	19.0	0.5134	1.905	1.1929	2 28.8	1.3089	11 5.8	0.3156	2.068
8	19.1	0.5161	1.914	1.1941	2 28.1	1.3086	11 2.3	0.3422	2.199
9	19.1	0.5188	1.924	1.1954	2 27.5	1.3083	10 58.8	0.3674	2.330
10	19.2	0.5216	1.933	1.1966	2 26.9	1.3080	10 55.2	0.3908	2.459
11	19.3	0.5243	1.943	1.1978	2 26.2	1.3076	10 51.7	0.4130	2.588
12	19.3	0.5270	+1.952	1.1990	2 25.6	1.3073	10 48.1	0.4339	+2.716
13	19.4	0.5298	1.961	1.2002	2 25.0	1.3069	10 44.5	0.4538	2.843
14	19.4	0.5325	1.970	1.2013	2 24.4	1.3065	10 40.9	0.4728	2.970
15	19.5	0.5353	1.980	1.2025	2 23.7	1.3061	10 37.3	0.4908	3.096
16	19.6	0.5380	1.989	1.2036	2 23.1	1.3057	10 33.8	0.5080	3.221
17	19.6	0.5407	1.998	1.2047	2 22.5	1.3052	10 30.2	0.5244	3.345
18	19.7	0.5435	+2.007	1.2058	2 21.9	1.3048	10 26.6	0.5401	+3.468
19	19.8	0.5462	2.016	1.2069	2 21.2	1.3043	10 23.0	0.5552	3.591
20	19.8	0.5489	2.025	1.2080	2 20.6	1.3039	10 19.4	0.5696	3.712
21	19.9	0.5517	2.033	1.2091	2 20.0	1.3034	10 15.7	0.5834	3.832
22	20.0	0.5544	2.042	1.2102	2 19.4	1.3029	10 12.1	0.5967	3.951
23	20.0	0.5572	+2.051	1.2113	2 18.8	1.3024	10 8.5	0.6096	+4.070

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1940	in 0.001 (s)	in 0.01 (″)				in 0.01 (″)	23° 26′		in 0.01 (″)	in 0.001	
Juni 12	+ 6	+7	20.3 (h)	+22.36″	+4.78″	+10	49.31″	−9.40″	+6	63	89
13	+ 2	7	18.7	22.50	4.80	+ 3	49.31	9.41	+7	63	89
14	− 3	7	17.0	22.64	4.83	− 5	49.30	9.42	+7	63	89
15	− 7	7	15.3	22.78	4.85	−11	49.30	9.42	+5	63	89
16	− 9	6	13.3	22.91	4.87	−15	49.30	9.43	+2	63	89
17	− 9	6	11.0	23.05	4.90	−15	49.30	9.43	−2	64	89
18	− 7	+6	8.9	+23.19	+4.92	−11	49.30	−9.44	−5	64	89
19	− 2	7	6.9	23.33	4.95	− 4	49.30	9.44	−7	64	89
20	+ 3	8	5.1	23.46	4.97	+ 4	49.30	9.45	−8	64	89
21	+ 7	8	3.6	23.60	4.99	+12	49.30	9.45	−7	65	89
22	+11	8	2.1	23.74	5.02	+18	49.29	9.45	−4	65	89
23	+13	8	0.6	23.88	5.04	+21	49.29	9.46	−1	65	89
24	+12	+8	23.2	+24.01	+5.07	+20	49.29	−9.46	+2	65	89
25	+10	8	21.7	24.15	5.09	+16	49.29	9.46	+4	65	89
26	+ 6	7	20.1	24.29	5.12	+ 9	49.29	9.46	+6	66	89
27	+ 1	7	18.3	24.43	5.14	+ 1	49.29	9.46	+7	66	89
28	− 4	7	16.5	24.56	5.16	− 7	49.29	9.46	+6	66	89
29	− 8	7	14.8	24.70	5.19	−14	49.29	9.46	+5	66	89
30	−11	+8	13.3	+24.84	+5.21	−19	49.28	−9.45	+3	67	89
Juli 1	−13	8	11.8	24.98	5.23	−21	49.28	9.45	0	67	89
2	−12	8	10.4	25.12	5.25	−20	49.28	9.45	−3	67	89
3	− 9	8	9.0	25.25	5.27	−15	49.28	9.44	−6	67	89
4	− 4	8	7.4	25.39	5.29	− 7	49.28	9.44	−7	67	89
5	+ 1	7	5.7	25.53	5.31	+ 1	49.28	9.43	−7	68	89
6	+ 5	+6	3.6	+25.67	+5.33	+ 9	49.28	−9.43	−5	68	89
7	+ 9	6	1.3	25.80	5.35	+14	49.28	9.42	−2	68	89
8	+10	6	23.1	25.94	5.37	+16	49.27	9.41	+2	68	89
9	+ 8	7	21.1	26.08	5.39	+13	49.27	9.41	+5	68	89
10	+ 4	7	19.4	26.22	5.41	+ 7	49.27	9.40	+7	69	89
11	− 1	7	17.8	26.35	5.42	− 1	49.27	9.39	+7	69	89
12	− 5	+7	16.1	+26.49	+5.44	− 8	49.27	−9.38	+6	69	88
13	− 8	6	14.1	26.63	5.45	−13	49.27	9.37	+3	69	88
14	− 9	6	11.8	26.77	5.46	−15	49.27	9.36	0	69	88
15	− 7	6	9.5	26.91	5.48	−12	49.27	9.35	−4	70	88
16	− 4	7	7.4	27.04	5.49	− 6	49.26	9.34	−6	70	88
17	+ 1	7	5.6	27.18	5.50	+ 2	49.26	9.33	−7	70	88
18	+ 6	+8	4.0	+27.32	+5.51	+10	49.26	−9.32	−7	70	88
19	+10	8	2.5	27.46	5.52	+16	49.26	9.31	−5	70	88
20	+12	8	1.1	27.59	5.52	+19	49.26	9.30	−2	70	88
21	+12	8	23.7	27.73	5.53	+20	49.26	9.28	+1	71	88
22	+10	7	22.2	27.87	5.53	+17	49.26	9.27	+3	71	88
23	+ 7	+7	20.6	+28.01	+5.54	+11	49.25	−9.26	+5	71	88

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1940	h	s	s		h m		h m		"
Juli 23	20.0	0.5572	+2.051	1.2113	2 18.8	1.3024	10 8.5	0.6096	+4.070
24	20.1	0.5599	2.059	1.2123	2 18.2	1.3018	10 4.8	0.6219	4.187
25	20.2	0.5626	2.068	1.2133	2 17.6	1.3013	10 1.2	0.6337	4.302
26	20.2	0.5654	2.076	1.2143	2 17.0	1.3008	9 57.5	0.6451	4.417
27	20.3	0.5681	2.085	1.2153	2 16.4	1.3002	9 53.8	0.6561	4.530
28	20.4	0.5709	2.093	1.2162	2 15.8	1.2997	9 50.1	0.6668	4.643
29	20.4	0.5736	+2.101	1.2172	2 15.2	1.2991	9 46.4	0.6771	+4.754
30	20.5	0.5763	2.109	1.2181	2 14.6	1.2985	9 42.7	0.6869	4.863
31	20.6	0.5791	2.117	1.2190	2 14.0	1.2979	9 39.0	0.6965	4.972
Aug. 1	20.6	0.5818	2.125	1.2199	2 13.5	1.2973	9 35.2	0.7058	5.079
2	20.7	0.5845	2.133	1.2208	2 12.9	1.2967	9 31.5	0.7147	5.184
3	20.8	0.5873	2.141	1.2217	2 12.3	1.2961	9 27.7	0.7234	5.289
4	20.8	0.5900	+2.149	1.2226	2 11.8	1.2955	9 23.9	0.7317	+5.392
5	20.9	0.5928	2.156	1.2234	2 11.2	1.2949	9 20.2	0.7398	5.493
6	21.0	0.5955	2.164	1.2243	2 10.7	1.2943	9 16.4	0.7476	5.592
7	21.0	0.5982	2.171	1.2251	2 10.1	1.2937	9 12.6	0.7552	5.691
8	21.1	0.6010	2.179	1.2260	2 9.6	1.2930	9 8.7	0.7625	5.788
9	21.2	0.6037	2.186	1.2268	2 9.0	1.2924	9 4.9	0.7696	5.883
10	21.2	0.6064	+2.193	1.2276	2 8.5	1.2918	9 1.1	0.7764	+5.976
11	21.3	0.6092	2.200	1.2283	2 8.0	1.2911	8 57.2	0.7830	6.068
12	21.4	0.6119	2.207	1.2291	2 7.5	1.2905	8 53.4	0.7894	6.158
13	21.4	0.6147	2.214	1.2299	2 7.0	1.2899	8 49.5	0.7957	6.247
14	21.5	0.6174	2.221	1.2307	2 6.5	1.2893	8 45.6	0.8017	6.334
15	21.6	0.6201	2.228	1.2314	2 6.0	1.2886	8 41.7	0.8075	6.419
16	21.6	0.6229	+2.234	1.2321	2 5.5	1.2880	8 37.8	0.8130	+6.502
17	21.7	0.6256	2.241	1.2329	2 5.0	1.2874	8 33.8	0.8184	6.583
18	21.7	0.6283	2.247	1.2336	2 4.5	1.2868	8 29.9	0.8237	6.663
19	21.8	0.6311	2.254	1.2343	2 4.1	1.2862	8 25.9	0.8287	6.740
20	21.9	0.6338	2.260	1.2350	2 3.6	1.2856	8 22.0	0.8335	6.816
21	21.9	0.6366	2.267	1.2357	2 3.1	1.2850	8 18.0	0.8382	6.890
22	22.0	0.6393	+2.273	1.2364	2 2.7	1.2844	8 14.0	0.8427	+6.962
23	22.1	0.6420	2.279	1.2370	2 2.3	1.2838	8 10.0	0.8471	7.032
24	22.1	0.6448	2.285	1.2377	2 1.9	1.2833	8 6.0	0.8513	7.101
25	22.2	0.6475	2.291	1.2384	2 1.4	1.2827	8 1.9	0.8553	7.167
26	22.3	0.6502	2.297	1.2391	2 1.0	1.2822	7 57.9	0.8592	7.231
27	22.3	0.6530	2.303	1.2397	2 0.6	1.2816	7 53.8	0.8629	7.293
28	22.4	0.6557	+2.308	1.2404	2 0.2	1.2811	7 49.8	0.8665	+7.353
29	22.5	0.6585	2.314	1.2410	1 59.8	1.2806	7 45.7	0.8699	7.411
30	22.5	0.6612	2.320	1.2417	1 59.5	1.2801	7 41.6	0.8731	7.467
31	22.6	0.6639	2.325	1.2423	1 59.1	1.2796	7 37.5	0.8763	7.521
Sept. 1	22.7	0.6667	2.331	1.2429	1 58.7	1.2791	7 33.4	0.8793	7.573
2	22.7	0.6694	+2.336	1.2436	1 58.4	1.2787	7 29.3	0.8821	+7.623

Tag		0h Welt-Zeit									
	f'	g'	G'	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1940	s in 0.001	" in 0.01				" in 0.01	23° 26′		" in 0.01	in 0.001	
Juli 23	+ 7	+7	h 20.6	" +28.01	" +5.54	+11	" 49.25	" −9.26	+5	71	88
24	+ 2	7	18.9	28.14	5.54	+ 4	49.25	9.24	+7	71	87
25	− 3	7	17.1	28.28	5.54	− 4	49.25	9.23	+7	71	87
26	− 7	7	15.3	28.42	5.54	−12	49.25	9.21	+6	71	87
27	−11	8	13.7	28.56	5.54	−18	49.25	9.20	+3	72	87
28	−13	8	12.3	28.69	5.54	−21	49.25	9.18	+1	72	87
29	−13	+9	10.9	+28.83	+5.53	−21	49.25	−9.17	−2	72	87
30	−11	9	9.6	28.97	5.53	−18	49.25	9.15	−5	72	87
31	− 7	8	8.2	29.11	5.52	−11	49.24	9.14	−7	72	87
Aug. 1	− 2	7	6.6	29.24	5.52	− 3	49.24	9.12	−7	72	87
2	+ 3	6	4.7	29.38	5.51	+ 5	49.24	9.11	−6	73	86
3	+ 7	6	2.3	29.52	5.50	+12	49.24	9.09	−3	73	86
4	+ 9	+6	23.7	+29.66	+5.49	+15	49.24	−9.08	0	73	86
5	+ 9	7	21.7	29.80	5.47	+14	49.24	9.06	+4	73	86
6	+ 6	8	20.1	29.93	5.46	+10	49.24	9.04	+7	73	86
7	+ 2	8	18.5	30.07	5.44	+ 3	49.24	9.03	+8	73	86
8	− 3	7	16.9	30.21	5.43	− 5	49.23	9.01	+7	73	86
9	− 7	6	15.0	30.35	5.41	−11	49.23	8.99	+5	74	86
10	− 8	+5	12.7	+30.48	+5.39	−13	49.23	−8.98	+1	74	85
11	− 7	5	9.9	30.62	5.37	−12	49.23	8.96	−3	74	85
12	− 4	6	7.7	30.76	5.34	− 7	49.23	8.95	−6	74	85
13	+ 1	7	5.8	30.90	5.32	+ 1	49.23	8.93	−7	74	85
14	+ 5	8	4.3	31.03	5.29	+ 9	49.23	8.91	−7	74	85
15	+ 9	8	2.9	31.17	5.27	+15	49.23	8.90	−6	74	85
16	+12	+8	1.6	+31.31	+5.24	+19	49.22	−8.88	−3	74	85
17	+12	8	0.2	31.45	5.21	+20	49.22	8.87	0	75	85
18	+11	8	22.7	31.58	5.18	+18	49.22	8.85	+3	75	84
19	+ 8	7	21.2	31.72	5.15	+13	49.22	8.84	+5	75	84
20	+ 4	7	19.5	31.86	5.11	+ 6	49.22	8.82	+6	75	84
21	− 1	7	17.7	32.00	5.08	− 2	49.22	8.81	+7	75	84
22	− 5	+7	16.0	+32.13	+5.04	− 9	49.22	−8.79	+6	75	84
23	− 9	7	14.4	32.27	5.00	−16	49.22	8.78	+4	75	84
24	−12	8	12.8	32.41	4.96	−20	49.21	8.76	+2	75	84
25	−13	9	11.4	32.55	4.92	−22	49.21	8.75	−1	76	84
26	−12	9	10.2	32.68	4.88	−20	49.21	8.74	−4	76	84
27	− 9	9	8.9	32.82	4.84	−15	49.21	8.72	−6	76	83
28	− 5	+8	7.4	+32.96	+4.80	− 7	49.21	−8.71	−7	76	83
29	0	7	5.8	33.10	4.75	+ 1	49.21	8.70	−7	76	83
30	+ 5	6	3.6	33.24	4.71	+ 8	49.21	8.68	−5	76	83
31	+ 8	6	0.9	33.37	4.66	+13	49.20	8.67	−1	76	83
Sept. 1	+ 8	6	22.4	33.51	4.61	+14	49.20	8.66	+2	76	83
2	+ 6	+7	20.4	+33.65	+4.56	+10	49.20	−8.65	+6	76	83

Reduktionsgrößen 1940

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1940	h	a	s		h m		h m		"
Sept. 2	22.7	0.6694	+2.336	1.2436	1 58.4	1.2787	7 29.3	0.8821	+7.623
3	22.8	0.6722	2.342	1.2442	1 58.0	1.2783	7 25.1	0.8848	7.670
4	22.9	0.6749	2.347	1.2448	1 57.7	1.2778	7 21.0	0.8873	7.715
5	22.9	0.6776	2.352	1.2454	1 57.4	1.2774	7 16.9	0.8898	7.759
6	23.0	0.6804	2.357	1.2461	1 57.1	1.2771	7 12.7	0.8921	7.800
7	23.1	0.6831	2.363	1.2467	1 56.8	1.2767	7 8.5	0.8942	7.838
8	23.1	0.6858	+2.368	1.2473	1 56.5	1.2763	7 4.3	0.8962	+7.874
9	23.2	0.6886	2.373	1.2479	1 56.2	1.2760	7 0.1	0.8981	7.908
10	23.3	0.6913	2.378	1.2486	1 55.9	1.2757	6 55.9	0.8998	7.940
11	23.3	0.6941	2.383	1.2492	1 55.6	1.2754	6 51.7	0.9015	7.970
12	23.4	0.6968	2.388	1.2498	1 55.3	1.2751	6 47.5	0.9030	7.998
13	23.5	0.6995	2.393	1.2504	1 55.1	1.2749	6 43.3	0.9043	8.023
14	23.5	0.7023	+2.397	1.2511	1 54.8	1.2747	6 39.1	0.9055	+8.045
15	23.6	0.7050	2.402	1.2517	1 54.6	1.2745	6 34.9	0.9067	8.066
16	23.7	0.7077	2.407	1.2523	1 54.4	1.2743	6 30.6	0.9076	8.084
17	23.7	0.7105	2.412	1.2530	1 54.2	1.2741	6 26.4	0.9085	8.100
18	23.8	0.7132	2.417	1.2536	1 53.9	1.2740	6 22.1	0.9092	8.113
19	23.8	0.7160	2.422	1.2543	1 53.7	1.2739	6 17.9	0.9098	8.124
20	23.9	0.7187	+2.426	1.2549	1 53.5	1.2738	6 13.6	0.9103	+8.133
21	0.0	0.7214	2.431	1.2556	1 53.3	1.2737	6 9.4	0.9106	8.139
22	0.0	0.7242	2.436	1.2563	1 53.2	1.2737	6 5.1	0.9108	8.143
23	0.1	0.7269	2.440	1.2569	1 53.0	1.2737	6 0.8	0.9109	8.145
24	0.2	0.7296	2.445	1.2576	1 52.8	1.2737	5 56.6	0.9109	8.145
25	0.2	0.7324	2.450	1.2583	1 52.7	1.2737	5 52.3	0.9107	8.142
26	0.3	0.7351	+2.455	1.2590	1 52.5	1.2738	5 48.0	0.9104	+8.136
27	0.4	0.7379	2.459	1.2597	1 52.4	1.2738	5 43.7	0.9100	8.128
28	0.4	0.7406	2.464	1.2604	1 52.3	1.2739	5 39.5	0.9094	8.118
29	0.5	0.7433	2.469	1.2611	1 52.1	1.2741	5 35.2	0.9088	8.105
30	0.6	0.7461	2.474	1.2618	1 52.0	1.2742	5 30.9	0.9079	8.090
Okt. 1	0.6	0.7488	2.478	1.2625	1 51.9	1.2744	5 26.6	0.9070	8.073
2	0.7	0.7516	+2.483	1.2632	1 51.8	1.2746	5 22.4	0.9060	+8.053
3	0.8	0.7543	2.488	1.2640	1 51.7	1.2748	5 18.1	0.9048	8.031
4	0.8	0.7570	2.493	1.2648	1 51.6	1.2751	5 13.8	0.9034	8.006
5	0.9	0.7598	2.498	1.2656	1 51.5	1.2753	5 9.5	0.9019	7.979
6	1.0	0.7625	2.503	1.2663	1 51.4	1.2756	5 5.3	0.9004	7.950
7	1.0	0.7652	2.508	1.2671	1 51.3	1.2759	5 1.0	0.8986	7.918
8	1.1	0.7680	+2.513	1.2679	1 51.3	1.2763	4 56.7	0.8967	+7.884
9	1.2	0.7707	2.518	1.2687	1 51.2	1.2766	4 52.5	0.8947	7.847
10	1.2	0.7735	2.523	1.2696	1 51.1	1.2770	4 48.2	0.8925	7.808
11	1.3	0.7762	2.528	1.2704	1 51.1	1.2774	4 44.0	0.8903	7.767
12	1.4	0.7789	2.534	1.2712	1 51.0	1.2778	4 39.8	0.8878	7.724
13	1.4	0.7817	+2.539	1.2721	1 51.0	1.2782	4 35.5	0.8852	+7.678

Tag		0h Welt-Zeit										
		f'	g'	G'	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1940		in 0.001 s	in 0.01"	h	"	"	in 0.01"	23° 26' "	"	in 0.01"	in 0.001	
Sept.	2	+ 6	+7	20.4	+33.65	+4.56	+10	49.20	−8.65	+6	76	83
	3	+ 3	8	18.9	33.79	4.51	+ 4	49.20	8.64	+8	77	83
	4	− 2	8	17.3	33.92	4.46	− 3	49.20	8.63	+7	77	83
	5	− 6	7	15.6	34.06	4.41	−10	49.20	8.62	+6	77	83
	6	− 8	6	13.5	34.20	4.36	−13	49.20	8.61	+2	77	83
	7	− 8	5	10.8	34.34	4.31	−13	49.20	8.60	−2	77	83
	8	− 5	+6	8.2	+34.47	+4.25	− 8	49.19	−8.60	−5	77	82
	9	0	7	6.1	34.61	4.20	0	49.19	8.59	−7	77	82
	10	+ 5	8	4.5	34.75	4.14	+ 8	49.19	8.58	−7	77	82
	11	+ 9	9	3.1	34.89	4.09	+15	49.19	8.58	−6	77	82
	12	+12	9	1.7	35.02	4.03	+20	49.19	8.57	−4	78	82
	13	+13	9	0.4	35.16	3.97	+22	49.19	8.57	−1	78	82
	14	+12	+8	23.1	+35.30	+3.91	+20	49.19	−8.56	+2	78	82
	15	+ 9	8	21.6	35.44	3.86	+15	49.19	8.56	+4	78	82
	16	+ 5	7	20.0	35.57	3.80	+ 9	49.18	8.56	+6	78	82
	17	+ 1	7	18.3	35.71	3.74	+ 2	49.18	8.55	+7	78	82
	18	− 4	7	16.6	35.85	3.68	− 6	49.18	8.55	+6	78	82
	19	− 8	7	14.8	35.99	3.62	−13	49.18	8.55	+4	78	82
	20	−11	+7	13.3	+36.12	+3.56	−18	49.18	−8.55	+2	78	82
	21	−12	8	11.8	36.26	3.50	−20	49.18	8.55	0	79	82
	22	−12	9	10.5	36.40	3.44	−20	49.18	8.55	−3	79	82
	23	−10	9	9.3	36.54	3.38	−17	49.18	8.55	−6	79	82
	24	− 6	8	8.1	36.67	3.32	−10	49.17	8.55	−7	79	82
	25	− 2	7	6.7	36.81	3.26	− 3	49.17	8.55	−7	79	82
	26	+ 3	+6	4.8	+36.95	+3.20	+ 4	49.17	−8.56	−5	79	82
	27	+ 6	5	2.1	37.09	3.14	+10	49.17	8.56	−2	79	82
	28	+ 7	5	23.2	37.23	3.08	+12	49.17	8.57	+1	79	82
	29	+ 6	6	20.8	37.36	3.02	+10	49.17	8.57	+5	80	82
	30	+ 3	7	19.0	37.50	2.96	+ 5	49.17	8.58	+7	80	82
Okt.	1	− 2	8	17.5	37.64	2.90	− 2	49.17	8.58	+8	80	82
	2	− 6	+8	16.0	+37.78	+2.84	− 9	49.16	−8.59	+7	80	82
	3	− 8	7	14.3	37.91	2.79	−14	49.16	8.60	+4	80	82
	4	− 9	6	11.9	38.05	2.73	−15	49.16	8.61	0	80	82
	5	− 7	6	9.3	38.19	2.67	−11	49.16	8.61	−4	80	82
	6	− 2	7	6.9	38.33	2.62	− 4	49.16	8.62	−7	81	82
	7	+ 3	8	5.0	38.46	2.56	+ 5	49.16	8.63	−8	81	82
	8	+ 8	+9	3.4	+38.60	+2.51	+14	49.16	−8.64	−7	81	82
	9	+12	9	2.1	38.74	2.45	+20	49.15	8.66	−5	81	83
	10	+14	9	0.8	38.88	2.40	+23	49.15	8.67	−2	81	83
	11	+14	9	23.5	39.01	2.35	+22	49.15	8.68	+1	81	83
	12	+11	8	22.1	39.15	2.29	+18	49.15	8.69	+4	82	83
	13	+ 7	+7	20.7	+39.29	+2.24	+12	49.15	−8.71	+6	82	83

Tag	0h Welt-Zeit								
	Stern-zeit Greenw.	t	f	log g	G	log h	H	log i	i
1940	h	s	s		h m		h m		"
Okt. 13	1.4	0.7817	+2.539	1.2721	1 51.0	1.2782	4 35.5	0.8852	+7.678
14	1.5	0.7844	2.544	1.2730	1 50.9	1.2786	4 31.3	0.8825	7.630
15	1.6	0.7871	2.550	1.2738	1 50.9	1.2791	4 27.1	0.8796	7.579
16	1.6	0.7899	2.555	1.2747	1 50.8	1.2796	4 22.9	0.8766	7.526
17	1.7	0.7926	2.561	1.2756	1 50.8	1.2801	4 18.7	0.8734	7.471
18	1.8	0.7954	2.566	1.2766	1 50.8	1.2806	4 14.5	0.8701	7.414
19	1.8	0.7981	+2.572	1.2775	1 50.7	1.2811	4 10.3	0.8666	+7.355
20	1.9	0.8008	2.578	1.2784	1 50.7	1.2816	4 6.1	0.8629	7.293
21	2.0	0.8036	2.584	1.2794	1 50.7	1.2822	4 1.9	0.8591	7.229
22	2.0	0.8063	2.590	1.2804	1 50.7	1.2828	3 57.7	0.8550	7.162
23	2.1	0.8090	2.596	1.2813	1 50.6	1.2833	3 53.6	0.8508	7.093
24	2.1	0.8118	2.602	1.2823	1 50.6	1.2839	3 49.4	0.8465	7.023
25	2.2	0.8145	+2.608	1.2833	1 50.6	1.2845	3 45.3	0.8420	+6.950
26	2.3	0.8173	2.614	1.2844	1 50.6	1.2851	3 41.2	0.8373	6.875
27	2.3	0.8200	2.621	1.2854	1 50.5	1.2857	3 37.0	0.8324	6.798
28	2.4	0.8227	2.627	1.2865	1 50.5	1.2864	3 32.9	0.8272	6.718
29	2.5	0.8255	2.634	1.2875	1 50.5	1.2870	3 28.8	0.8220	6.637
30	2.5	0.8282	2.640	1.2886	1 50.5	1.2876	3 24.7	0.8165	6.554
31	2.6	0.8310	+2.647	1.2896	1 50.4	1.2883	3 20.6	0.8108	+6.469
Nov. 1	2.7	0.8337	2.654	1.2907	1 50.4	1.2889	3 16.6	0.8049	6.381
2	2.7	0.8364	2.661	1.2918	1 50.4	1.2896	3 12.5	0.7987	6.291
3	2.8	0.8392	2.668	1.2929	1 50.3	1.2902	3 8.5	0.7924	6.200
4	2.9	0.8419	2.675	1.2941	1 50.3	1.2909	3 4.4	0.7858	6.107
5	2.9	0.8446	2.682	1.2952	1 50.3	1.2915	3 0.4	0.7789	6.011
6	3.0	0.8474	+2.689	1.2963	1 50.2	1.2922	2 56.4	0.7719	+5.914
7	3.1	0.8501	2.697	1.2975	1 50.2	1.2928	2 52.3	0.7645	5.815
8	3.1	0.8529	2.704	1.2986	1 50.1	1.2935	2 48.3	0.7569	5.714
9	3.2	0.8556	2.712	1.2998	1 50.1	1.2941	2 44.3	0.7490	5.611
10	3.3	0.8583	2.720	1.3010	1 50.0	1.2948	2 40.4	0.7409	5.507
11	3.3	0.8611	2.727	1.3022	1 50.0	1.2954	2 36.4	0.7325	5.401
12	3.4	0.8638	+2.735	1.3034	1 49.9	1.2961	2 32.4	0.7237	+5.293
13	3.5	0.8665	2.743	1.3046	1 49.9	1.2967	2 28.5	0.7146	5.183
14	3.5	0.8693	2.751	1.3058	1 49.8	1.2974	2 24.5	0.7052	5.072
15	3.6	0.8720	2.760	1.3070	1 49.7	1.2980	2 20.6	0.6954	4.959
16	3.7	0.8748	2.768	1.3083	1 49.6	1.2986	2 16.7	0.6853	4.845
17	3.7	0.8775	2.776	1.3095	1 49.6	1.2992	2 12.8	0.6748	4.729
18	3.8	0.8802	+2.785	1.3107	1 49.5	1.2998	2 8.9	0.6638	+4.611
19	3.9	0.8830	2.793	1.3120	1 49.4	1.3004	2 5.0	0.6524	4.492
20	3.9	0.8857	2.802	1.3132	1 49.3	1.3010	2 1.1	0.6407	4.372
21	4.0	0.8884	2.811	1.3145	1 49.2	1.3015	1 57.2	0.6284	4.250
22	4.1	0.8912	2.820	1.3158	1 49.1	1.3021	1 53.3	0.6156	4.127
23	4.1	0.8939	+2.829	1.3170	1 49.0	1.3027	1 49.5	0.6024	+4.003

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1940.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1940	in 0.001 s	in 0.01 "	h	"	"	in 0.01 "	23° 26' "	"	in 0.01 "	in 0.001	
Okt. 13	+ 7	+ 7	20.7	+39.29	+2.24	+12	49.15	−8.71	+6	82	83
14	+ 3	7	19.0	39.43	2.19	+ 5	49.15	8.72	+7	82	83
15	− 2	6	17.3	39.56	2.14	− 3	49.15	8.74	+6	82	83
16	− 6	6	15.5	39.70	2.10	−10	49.15	8.75	+5	82	83
17	− 9	7	13.8	39.84	2.05	−15	49.14	8.77	+3	82	83
18	−11	7	12.2	39.98	2.01	−18	49.14	8.78	0	83	83
19	−12	+ 8	10.8	+40.12	+1.96	−19	49.14	−8.80	−2	83	83
20	−10	8	9.6	40.25	1.92	−16	49.14	8.82	−5	83	83
21	− 7	8	8.4	40.39	1.87	−11	49.14	8.83	−6	83	84
22	− 3	7	7.0	40.53	1.83	− 5	49.14	8.85	−7	83	84
23	+ 1	6	5.4	40.67	1.79	+ 2	49.14	8.87	−6	83	84
24	+ 5	5	3.2	40.80	1.76	+ 8	49.14	8.89	−4	84	84
25	+ 7	+ 5	0.2	+40.94	+1.72	+11	49.13	−8.91	0	84	84
26	+ 6	5	21.5	41.08	1.69	+10	49.13	8.92	+3	84	84
27	+ 4	6	19.4	41.22	1.65	+ 6	49.13	8.94	+6	84	84
28	0	8	17.8	41.35	1.62	− 1	49.13	8.96	+8	84	84
29	− 5	8	16.3	41.49	1.59	− 9	49.13	8.98	+7	85	84
30	− 9	8	14.7	41.63	1.56	−15	49.13	9.00	+5	85	85
31	−10	+ 7	12.8	+41.77	+1.53	−17	49.13	−9.02	+1	85	85
Nov. 1	− 9	6	10.5	41.90	1.51	−15	49.13	9.04	−3	85	85
2	− 5	7	8.1	42.04	1.48	− 9	49.12	9.06	−6	85	85
3	0	8	5.9	42.18	1.46	0	49.12	9.09	−8	86	85
4	+ 6	9	4.1	42.32	1.44	+10	49.12	9.11	−8	86	85
5	+11	9	2.7	42.45	1.42	+18	49.12	9.13	−6	86	85
6	+14	+10	1.3	+42.59	+1.40	+23	49.12	−9.15	−3	86	86
7	+15	10	0.0	42.73	1.38	+24	49.12	9.17	0	87	86
8	+13	9	22.7	42.87	1.37	+21	49.12	9.19	+3	87	86
9	+ 9	8	21.2	43.01	1.36	+15	49.12	9.21	+5	87	86
10	+ 5	7	19.6	43.14	1.35	+ 8	49.11	9.23	+7	87	86
11	0	7	17.9	43.28	1.34	0	49.11	9.26	+7	88	86
12	− 5	+ 6	16.1	+43.42	+1.33	− 7	49.11	−9.28	+6	88	86
13	− 8	6	14.2	43.56	1.32	−13	49.11	9.30	+4	88	86
14	−10	7	12.6	43.69	1.31	−17	49.11	9.32	+1	88	87
15	−11	7	11.1	43.83	1.31	−18	49.11	9.34	−2	89	87
16	−10	8	9.7	43.97	1.31	−16	49.11	9.36	−4	89	87
17	− 7	8	8.5	44.11	1.31	−11	49.10	9.38	−6	89	87
18	− 3	+ 7	7.1	+44.24	+1.31	− 5	49.10	−9.40	−7	89	87
19	+ 1	6	5.6	44.38	1.31	+ 2	49.10	9.42	−6	90	87
20	+ 5	5	3.8	44.52	1.32	+ 8	49.10	9.44	−4	90	87
21	+ 7	5	1.1	44.66	1.32	+11	49.10	9.46	−1	90	87
22	+ 7	5	22.4	44.79	1.33	+11	49.10	9.48	+2	90	87
23	+ 5	+ 6	20.1	+44.93	+1.34	+ 8	49.10	−9.50	+5	91	88

Tag	0ʰ Welt-Zeit								
	Stern-zeit Greenw.	t	f	log g	G	log h	H	log i	i
1940	h	s	s		h m		h m		"
Nov. 23	4.1	0.8939	+2.829	1.3170	1 49.0	1.3027	1 49.5	0.6024	+4.003
24	4.2	0.8967	2.838	1.3183	1 48.9	1.3032	1 45.6	0.5885	3.877
25	4.3	0.8994	2.847	1.3196	1 48.7	1.3037	1 41.7	0.5739	3.749
26	4.3	0.9021	2.856	1.3208	1 48.6	1.3042	1 37.9	0.5588	3.621
27	4.4	0.9049	2.865	1.3221	1 48.5	1.3047	1 34.1	0.5431	3.492
28	4.4	0.9076	2.875	1.3234	1 48.3	1.3052	1 30.3	0.5265	3.361
29	4.5	0.9104	+2.884	1.3247	1 48.2	1.3056	1 26.5	0.5091	+3.229
30	4.6	0.9131	2.893	1.3259	1 48.0	1.3061	1 22.6	0.4909	3.097
Dez. 1	4.6	0.9158	2.903	1.3272	1 47.8	1.3065	1 18.8	0.4717	2.963
2	4.7	0.9186	2.913	1.3285	1 47.7	1.3069	1 15.0	0.4515	2.828
3	4.8	0.9213	2.922	1.3298	1 47.5	1.3073	1 11.3	0.4301	2.692
4	4.8	0.9240	2.932	1.3311	1 47.3	1.3077	1 7.5	0.4076	2.556
5	4.9	0.9268	+2.942	1.3323	1 47.1	1.3081	1 3.7	0.3835	+2.418
6	5.0	0.9295	2.952	1.3336	1 46.9	1.3084	0 59.9	0.3579	2.280
7	5.0	0.9323	2.962	1.3349	1 46.7	1.3087	0 56.1	0.3306	2.141
8	5.1	0.9350	2.972	1.3361	1 46.5	1.3090	0 52.4	0.3012	2.001
9	5.2	0.9377	2.982	1.3374	1 46.3	1.3093	0 48.6	0.2697	1.861
10	5.2	0.9405	2.992	1.3387	1 46.1	1.3096	0 44.8	0.2358	1.721
11	5.3	0.9432	+3.002	1.3399	1 45.9	1.3098	0 41.1	0.1984	+1.579
12	5.4	0.9459	3.012	1.3412	1 45.7	1.3100	0 37.3	0.1575	1.437
13	5.4	0.9487	3.022	1.3424	1 45.4	1.3102	0 33.6	0.1119	1.294
14	5.5	0.9514	3.033	1.3437	1 45.2	1.3104	0 29.8	0.0611	1.151
15	5.6	0.9542	3.043	1.3449	1 44.9	1.3106	0 26.1	0.0035	1.008
16	5.6	0.9569	3.053	1.3462	1 44.7	1.3107	0 22.4	9.9365	0.864
17	5.7	0.9596	+3.064	1.3474	1 44.4	1.3108	0 18.6	9.8573	+0.720
18	5.8	0.9624	3.074	1.3486	1 44.2	1.3109	0 14.9	9.7604	0.576
19	5.8	0.9651	3.084	1.3498	1 43.9	1.3110	0 11.1	9.6355	0.432
20	5.9	0.9678	3.095	1.3510	1 43.6	1.3111	0 7.4	9.4579	0.287
21	6.0	0.9706	3.105	1.3522	1 43.3	1.3111	0 3.7	9.1523	+0.142
22	6.0	0.9733	3.116	1.3534	1 43.0	1.3111	23 59.9	7.4771*n*	−0.003
23	6.1	0.9761	+3.126	1.3546	1 42.7	1.3111	23 56.2	9.1673*n*	−0.147
24	6.2	0.9788	3.136	1.3558	1 42.4	1.3111	23 52.4	9.4654*n*	0.292
25	6.2	0.9815	3.147	1.3569	1 42.1	1.3110	23 48.7	9.6405*n*	0.437
26	6.3	0.9843	3.157	1.3581	1 41.8	1.3110	23 45.0	9.7649*n*	0.582
27	6.4	0.9870	3.167	1.3592	1 41.5	1.3109	23 41.2	9.8609*n*	0.726
28	6.4	0.9898	3.178	1.3603	1 41.2	1.3107	23 37.5	9.9395*n*	0.870
29	6.5	0.9925	+3.188	1.3614	1 40.9	1.3106	23 33.7	0.0056*n*	−1.013
30	6.6	0.9952	3.198	1.3626	1 40.6	1.3104	23 30.0	0.0630*n*	1.156
31	6.6	0.9980	3.209	1.3637	1 40.2	1.3102	23 26.3	0.1136*n*	1.299
32	6.7	1.0007	+3.219	1.3648	1 39.9	1.3100	23 22.5	0.1590*n*	−1.442

Tag	0h Welt-Zeit										
	f′	g′	G′	Allgemeine Präzession seit 1940.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
1940	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26′ "	"	" in 0.01	in 0.001	
Nov. 23	+ 5	+ 6	20.1	+44.93	+1.34	+ 8	49.10	−9.50	+5	91	88
24	+ 1	7	18.3	45.07	1.35	+ 1	49.10	9.51	+7	91	88
25	− 4	8	16.7	45.21	1.36	− 6	49.09	9.53	+7	91	88
26	− 8	8	15.1	45.34	1.37	−13	49.09	9.55	+6	91	88
27	−11	7	13.5	45.48	1.39	−17	49.09	9.57	+3	92	88
28	−11	7	11.5	45.62	1.40	−17	49.09	9.58	−1	92	88
29	− 8	+7	9.3	+45.76	+1.42	−13	49.09	−9.60	−4	92	88
30	− 3	7	7.0	45.90	1.43	− 5	49.09	9.61	−7	92	88
Dez. 1	+ 3	8	5.1	46.03	1.45	+ 5	49.09	9.63	−8	93	88
2	+ 8	9	3.4	46.17	1.47	+14	49.09	9.64	−7	93	88
3	+12	9	1.9	46.31	1.49	+20	49.08	9.66	−4	93	89
4	+14	9	0.5	46.45	1.52	+23	49.08	9.67	−1	94	89
5	+14	+9	23.1	+46.58	+1.54	+22	49.08	−9.68	+2	94	89
6	+11	9	21.7	46.72	1.56	+18	49.08	9.70	+5	94	89
7	+ 7	8	20.2	46.86	1.59	+11	49.08	9.71	+6	94	89
8	+ 2	7	18.5	47.00	1.61	+ 3	49.08	9.72	+7	95	89
9	− 3	6	16.7	47.13	1.64	− 5	49.08	9.73	+6	95	89
10	− 7	6	14.8	47.27	1.67	−12	49.08	9.74	+4	95	89
11	−10	+7	13.1	+47.41	+1.70	−16	49.07	−9.75	+2	95	89
12	−11	7	11.6	47.55	1.73	−18	49.07	9.76	−1	96	89
13	−10	8	10.1	47.69	1.76	−17	49.07	9.77	−4	96	89
14	− 8	8	8.7	47.82	1.79	−13	49.07	9.77	−6	96	89
15	− 4	7	7.3	47.96	1.82	− 6	49.07	9.78	−7	97	89
16	0	7	5.8	48.10	1.85	+ 1	49.07	9.78	−7	97	89
17	+ 4	+6	4.0	+48.24	+1.88	+ 7	49.07	−9.79	−5	97	89
18	+ 7	5	1.8	48.37	1.91	+12	49.06	9.79	−2	97	89
19	+ 8	5	23.3	48.51	1.94	+13	49.06	9.80	+1	98	89
20	+ 6	6	21.1	48.65	1.97	+11	49.06	9.80	+4	98	89
21	+ 3	7	19.1	48.79	2.00	+ 5	49.06	9.80	+6	98	89
22	− 2	7	17.4	48.92	2.04	− 3	49.06	9.80	+7	98	89
23	− 6	+8	15.8	+49.06	+2.07	−10	49.06	−9.80	+6	99	89
24	−10	8	14.2	49.20	2.10	−16	49.06	9.80	+4	99	89
25	−11	7	12.3	49.34	2.13	−18	49.06	9.80	+1	99	89
26	− 9	7	10.1	49.47	2.16	−15	49.05	9.80	−3	100	89
27	− 5	7	8.0	49.61	2.20	− 9	49.05	9.80	−6	100	89
28	0	7	5.9	49.75	2.23	0	49.05	9.80	−7	100	89
29	+ 6	+8	4.1	+49.89	+2.26	+ 9	49.05	−9.79	−7	100	89
30	+10	9	2.6	50.02	2.29	+17	49.05	9.79	−5	101	89
31	+13	9	1.1	50.16	2.32	+21	49.05	9.78	−2	101	89
32	+13	+9	23.6	+50.30	+2.35	+22	49.05	−9.78	+1	101	89

Reduktionsgrößen 1940

für 12ʰ Sternzeit Greenwich

Welt-Zeit	*t*	*A*		*A′*	*B*		*B′*	*C*		*D*	
1940	s			in 0.00001	"		in 0."001	"		"	
Jan. 0.226	−0.0035	+0.15514	335	+228	+8.907	3	−65	− 2.822	328	+20.238	58
1.223	−0.0008	0.15849	335	+ 74	8.904	3	−76	3.150	328	20.180	64
2.220	+0.0020	0.16184	333	− 84	8.901	4	−67	3.478	327	20.116	70
3.218	0.0047	0.16517	333	−209	8.897	5	−43	3.805	326	20.046	77
4.215	0.0074	0.16850	331	−267	8.892	5	− 8	4.131	324	19.969	83
5.212	0.0102	0.17181	329	−245	8.887	6	+27	4.455	323	19.886	89
6.209	0.0129	+0.17510	328	−158	+8.881	6	+57	− 4.778	321	+19.797	95
7.207	0.0156	0.17838	325	− 23	8.875	7	+73	5.099	320	19.702	102
8.204	0.0184	0.18163	323	+128	8.868	8	+74	5.419	318	19.600	108
9.201	0.0211	0.18486	322	+252	8.860	8	+61	5.737	317	19.492	114
10.198	0.0238	0.18808	320	+341	8.852	8	+39	6.054	315	19.378	120
11.196	0.0265	0.19128	318	+368	8.844	9	+11	6.369	312	19.258	127
12.193	0.0293	+0.19446	315	+339	+8.835	10	−19	− 6.681	310	+19.131	133
13.190	0.0320	0.19761	313	+260	8.825	11	−44	6.991	308	18.998	138
14.187	0.0347	0.20074	312	+134	8.814	11	−61	7.299	306	18.860	144
15.185	0.0375	0.20386	309	− 22	8.803	11	−71	7.605	303	18.716	150
16.182	0.0402	0.20695	307	−183	8.792	12	−67	7.908	300	18.566	155
17.179	0.0429	0.21002	304	−328	8.780	12	−52	8.208	298	18.411	161
18.177	0.0457	+0.21306	301	−432	+8.768	12	−26	− 8.506	296	+18.250	167
19.174	0.0484	0.21607	298	−471	8.756	13	+ 7	8.802	293	18.083	173
20.171	0.0511	0.21905	296	−433	8.743	14	+37	9.095	289	17.910	179
21.168	0.0538	0.22201	293	−318	8.729	14	+65	9.384	286	17.731	184
22.166	0.0566	0.22494	289	−147	8.715	14	+75	9.670	283	17.547	189
23.163	0.0593	0.22783	286	+ 45	8.701	14	+69	9.953	281	17.358	195
24.160	0.0620	+0.23069	284	+214	+8.687	15	+46	−10.234	278	+17.163	200
25.157	0.0648	0.23353	281	+321	8.672	15	+11	10.512	274	16.963	206
26.155	0.0675	0.23634	278	+344	8.657	16	−26	10.786	270	16.757	211
27.152	0.0702	0.23912	275	+280	8.641	16	−59	11.056	266	16.546	215
28.149	0.0730	0.24187	272	+149	8.625	16	−76	11.322	263	16.331	220
29.147	0.0757	0.24459	268	− 11	8.609	15	−75	11.585	259	16.111	225
30.144	0.0784	+0.24727	265	−148	+8.594	16	−56	−11.844	255	+15.886	231
31.141	0.0812	0.24992	262	−231	8.578	16	−22	12.099	252	15.655	236
Febr. 1.138	0.0839	0.25254	259	−240	8.562	16	+14	12.351	249	15.419	241
2.136	0.0866	0.25513	255	−170	8.546	16	+47	12.600	245	15.178	245
3.133	0.0893	0.25768	252	− 48	8.530	16	+68	12.845	240	14.933	249
4.130	0.0921	0.26020	249	+ 97	8.514	16	+75	13.085	235	14.684	253
5.127	0.0948	+0.26269	247	+233	+8.498	17	+67	−13.320	230	+14.431	258
6.125	0.0975	0.26516	243	+332	8.481	17	+47	13.550	227	14.173	263
7.122	0.1003	0.26759	239	+376	8.464	16	+21	13.777	223	13.910	268
8.119	0.1030	0.26998	236	+363	8.448	16	− 8	14.000	219	13.642	272
9.116	0.1057	0.27234	232	+298	8.432	16	−34	14.219	214	13.370	275
10.114	0.1085	+0.27466		+186	+8.416		−55	−14.433		+13.095	

Reduktionsgrößen 1940

für 12h Sternzeit Greenwich

Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1940	s			in 0.00001	"		in 0.001	"		"	
Febr. 10.114	0.1085	+0.27466	230	+186	+8.416	17	−55	−14.433	210	+13.095	279
11.111	0.1112	0.27696	227	+ 45	8.399	16	−67	14.643	205	12.816	283
12.108	0.1139	0.27923	223	−109	8.383	16	−67	14.848	200	12.533	287
13.106	0.1166	0.28146	220	−262	8.367	15	−57	15.048	195	12.246	290
14.103	0.1194	0.28366	217	−386	8.352	15	−37	15.243	190	11.956	293
15.100	0.1221	0.28583	213	−459	8.337	15	− 8	15.433	186	11.663	297
16.097	0.1248	+0.28796	210	−462	+8.322	15	+23	−15.619	181	+11.366	302
17.095	0.1276	0.29006	208	−394	8.307	15	+51	15.800	176	11.064	305
18.092	0.1303	0.29214	205	−254	8.292	15	+69	15.976	171	10.759	308
19.089	0.1330	0.29419	203	− 74	8.277	14	+74	16.147	166	10.451	310
20.086	0.1358	0.29622	200	+106	8.263	13	+60	16.313	161	10.141	313
21.084	0.1385	0.29822	197	+245	8.250	13	+29	16.474	155	9.828	316
22.081	0.1412	+0.30019	194	+313	+8.237	13	− 8	−16.629	150	+ 9.512	319
23.078	0.1440	0.30213	192	+289	8.224	12	−43	16.779	146	9.193	322
24.076	0.1467	0.30405	188	+189	8.212	12	−70	16.925	140	8.871	324
25.073	0.1494	0.30593	186	+ 42	8.200	11	−78	17.065	135	8.547	327
26.070	0.1521	0.30779	184	−106	8.189	11	−67	17.200	129	8.220	329
27.067	0.1549	0.30963	182	−212	8.178	11	−39	17.329	123	7.891	332
28.065	0.1576	+0.31145	180	−247	+8.167	10	− 1	−17.452	118	+ 7.559	334
29.062	0.1603	0.31325	179	−199	8.157	9	+34	17.570	113	7.225	336
März 1.059	0.1631	0.31504	176	− 84	8.148	9	+62	17.683	108	6.889	338
2.056	0.1658	0.31680	173	+ 65	8.139	8	+75	17.791	102	6.551	339
3.054	0.1685	0.31853	172	+213	8.131	8	+73	17.893	97	6.212	341
4.051	0.1713	0.32025	170	+333	8.123	7	+57	17.990	91	5.871	343
5.048	0.1740	+0.32195	168	+398	+8.116	7	+31	−18.081	86	+ 5.528	344
6.046	0.1767	0.32363	167	+401	8.109	6	+ 2	18.167	80	5.184	345
7.043	0.1794	0.32530	166	+346	8.103	6	−26	18.247	75	4.839	347
8.040	0.1822	0.32696	165	+246	8.097	5	−48	18.322	69	4.492	349
9.037	0.1849	0.32861	163	+113	8.092	4	−62	18.391	63	4.143	350
10.035	0.1876	0.33024	161	− 36	8.088	4	−66	18.454	58	3.793	350
11.032	0.1904	+0.33185	160	−186	+8.084	3	−61	−18.512	52	+ 3.443	350
12.029	0.1931	0.33345	160	−317	8.081	2	−45	18.564	47	3.093	351
13.026	0.1958	0.33505	159	−411	8.079	2	−18	18.611	41	2.742	352
14.024	0.1986	0.33664	159	−446	8.077	1	+ 9	18.652	35	2.390	353
15.021	0.2013	0.33823	157	−413	8.076	0	+38	18.687	29	2.037	353
16.018	0.2040	0.33980	156	−313	8.076	0	+62	18.716	24	1.684	354
17.015	0.2068	+0.34136	156	−162	+8.076	1	+72	−18.740	18	+ 1.330	354
18.013	0.2095	0.34292	155	+ 9	8.077	1	+66	18.758	13	0.976	354
19.010	0.2122	0.34447	156	+161	8.078	2	+43	18.771	7	0.622	354
20.007	0.2149	0.34603	156	+256	8.080	3	+ 9	18.778	1	+ 0.268	354
21.005	0.2177	0.34759	155	+271	8.083	4	−27	18.779	−4	− 0.086	353
22.002	0.2204	+0.34914		+204	+8.087		−61	−18.775		− 0.439	

Reduktionsgrößen 1940

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1940	s			in 0.00001	"		in 0.001	"		"	
März 22.002	0.2204	+0.34914	156	+204	+8.087	4	−61	−18.775	10	−0.439	354
22.999	0.2231	0.35070	156	+73	8.091	5	−77	18.765	15	0.793	353
23.996	0.2259	0.35226	157	−77	8.096	5	−75	18.750	21	1.146	352
24.994	0.2286	0.35383	157	−206	8.101	7	−54	18.729	26	1.498	351
25.991	0.2313	0.35540	157	−268	8.108	7	−19	18.703	32	1.849	351
26.988	0.2341	0.35697	158	−251	8.115	8	+19	18.671	38	2.200	350
27.985	0.2368	+0.35855	159	−152	+8.123	8	+52	−18.633	43	−2.550	350
28.983	0.2395	0.36014	160	−3	8.131	8	+73	18.590	48	2.900	348
29.980	0.2422	0.36174	160	+163	8.139	9	+77	18.542	54	3.248	346
30.977	0.2450	0.36334	161	+310	8.148	10	+66	18.488	60	3.594	345
31.975	0.2477	0.36495	162	+405	8.158	11	+43	18.428	65	3.939	344
April 1.972	0.2504	0.36657	163	+435	8.169	11	+13	18.363	70	4.283	343
2.969	0.2532	+0.36820	165	+403	+8.180	11	−17	−18.293	75	−4.626	342
3.966	0.2559	0.36985	167	+313	8.191	12	−42	18.218	80	4.968	340
4.964	0.2586	0.37152	168	+181	8.203	13	−60	18.138	86	5.308	338
5.961	0.2614	0.37320	170	+31	8.216	14	−67	18.052	92	5.646	336
6.958	0.2641	0.37490	171	−120	8.230	14	−64	17.960	97	5.982	334
7.955	0.2668	0.37661	173	−252	8.244	14	−50	17.863	101	6.316	332
8.953	0.2696	+0.37834	174	−355	+8.258	15	−28	−17.762	107	−6.648	329
9.950	0.2723	0.38008	176	−408	8.273	15	0	17.655	112	6.977	327
10.947	0.2750	0.38184	178	−400	8.288	16	+27	17.543	117	7.304	325
11.944	0.2777	0.38362	180	−330	8.304	16	+54	17.426	122	7.629	324
12.942	0.2805	0.38542	183	−203	8.320	17	+69	17.304	127	7.953	321
13.939	0.2832	0.38725	185	−46	8.337	18	+68	17.177	132	8.274	318
14.936	0.2859	+0.38910	187	+105	+8.355	18	+55	−17.045	136	−8.592	315
15.934	0.2887	0.39097	189	+215	8.373	18	+25	16.909	141	8.907	311
16.931	0.2914	0.39286	191	+259	8.391	18	−11	16.768	147	9.218	309
17.928	0.2941	0.39477	194	+218	8.409	19	−47	16.621	151	9.527	307
18.925	0.2969	0.39671	196	+109	8.428	19	−70	16.470	156	9.834	304
19.923	0.2996	0.39867	199	−42	8.447	19	−77	16.314	161	10.138	301
20.920	0.3023	+0.40066	202	−187	+8.466	20	−66	−16.153	165	−10.439	297
21.917	0.3050	0.40268	204	−282	8.486	20	−37	15.988	169	10.736	294
22.914	0.3078	0.40472	206	−301	8.506	20	+1	15.819	174	11.030	291
23.912	0.3105	0.40678	209	−237	8.526	20	+35	15.645	179	11.321	287
24.909	0.3132	0.40887	212	−104	8.546	20	+63	15.466	183	11.608	284
25.906	0.3160	0.41099	214	+69	8.566	21	+78	15.283	186	11.892	281
26.904	0.3187	+0.41313	217	+239	+8.587	21	+74	−15.097	190	−12.173	277
27.901	0.3214	0.41530	220	+372	8.608	21	+55	14.907	195	12.450	273
28.898	0.3242	0.41750	222	+442	8.629	21	+27	14.712	200	12.723	268
29.895	0.3269	0.41972	225	+437	8.650	22	−4	14.512	204	12.991	265
30.893	0.3296	0.42197	228	+371	8.672	22	−34	14.308	207	13.256	261
Mai 1.890	0.3324	+0.42425		+251	+8.694		−54	−14.101		−13.517	

Reduktionsgrößen 1940

für 12^h Sternzeit Greenwich

Welt-Zeit		t	A		A′	B		B′	C		D	
1940		s			in 0.00001	″		in 0.″001	″		″	
Mai	1.890	0.3324	+0.42425	231	+251	+8.694	22	−54	−14.101	211	−13.517	285
	2.887	0.3351	0.42656	235	+102	8.716	21	−67	13.890	215	13.775	254
	3.884	0.3378	0.42891	237	− 54	8.737	21	−66	13.675	219	14.029	250
	4.882	0.3405	0.43128	239	−198	8.758	21	−57	13.456	223	14.027	246
	5.879	0.3433	0.43367	242	−312	8.779	22	−37	13.233	226	14.525	241
	6.876	0.3460	0.43609	244	−379	8.801	21	−10	13.007	230	14.766	236
	7.873	0.3487	+0.43853	248	−386	+8.822	22	+19	−12.777	233	−15.002	232
	8.871	0.3515	0.44101	251	−330	8.844	21	+45	12.544	237	15.234	227
	9.868	0.3542	0.44352	253	−224	8.865	21	+63	12.307	240	15.461	223
	10.865	0.3569	0.44605	256	− 76	8.886	21	+69	12.067	244	15.684	219
	11.863	0.3597	0.44861	259	+ 77	8.907	21	+60	11.823	247	15.903	215
	12.860	0.3624	0.45120	261	+200	8.928	20	+37	11.576	250	16.118	210
	13.857	0.3651	+0.45381	263	+264	+8.948	21	+ε	−11.326	253	−16.328	205
	14.854	0.3678	0.45644	266	+251	8.969	20	−31	11.073	256	16.533	200
	15.852	0.3706	0.45910	269	+160	8.989	20	−58	10.817	259	16.733	195
	16.849	0.3733	0.46179	271	+ 19	9.009	20	−75	10.558	262	16.928	190
	17.846	0.3760	0.46450	274	−137	9.029	20	−71	10.296	265	17.118	185
	18.843	0.3788	0.46724	278	−263	9.049	20	−50	10.031	267	17.303	181
	19.841	0.3815	+0.47002	280	−325	+9.069	19	−18	− 9.764	269	−17.484	176
	20.838	0.3842	0.47282	281	−299	9.088	18	+22	9.495	272	17.660	171
	21.835	0.3870	0.47563	284	−196	9.106	18	+54	9.223	275	17.831	166
	22.833	0.3897	0.47847	286	− 41	9.124	18	+73	8.948	278	17.997	161
	23.830	0.3924	0.48133	288	+137	9.142	18	+76	8.670	280	18.158	156
	24.827	0.3952	0.48421	291	+294	9.160	17	+64	8.390	282	18.314	150
	25.824	0.3979	+0.48712	293	+400	+9.177	17	+41	− 8.108	284	−18.464	145
	26.822	0.4006	0.49005	294	+438	9.194	17	+ 9	7.824	287	18.609	139
	27.819	0.4033	0.49299	297	+404	9.211	16	−22	7.537	289	18.748	134
	28.816	0.4061	0.49596	299	+307	9.227	15	−48	7.248	290	18.882	129
	29.813	0.4088	0.49895	300	+168	9.242	15	−65	6.958	292	19.011	124
	30.811	0.4115	0.50195	301	+ 11	9.257	15	−70	6.666	293	19.135	119
	31.808	0.4143	+0.50496	304	−146	+9.272	14	−63	− 6.373	295	−19.254	114
Juni	1.805	0.4170	0.50800	305	−279	9.286	14	−47	6.078	297	19.368	108
	2.802	0.4197	0.51105	306	−365	9.300	13	−20	5.781	299	19.476	102
	3.800	0.4225	0.51411	308	−394	9.313	13	+ 7	5.482	300	19.578	97
	4.797	0.4252	0.51719	310	−358	9.326	12	+36	5.182	300	19.675	92
	5.794	0.4279	0.52029	312	−259	9.338	11	+59	4.882	302	19.767	86
	6.792	0.4306	+0.52341	314	−117	+9.349	11	+70	− 4.580	304	−19.853	80
	7.789	0.4334	0.52655	314	+ 43	9.360	10	+65	4.276	306	19.933	75
	8.786	0.4361	0.52969	315	+186	9.370	10	+46	3.970	307	20.008	69
	9.783	0.4388	0.53284	315	+275	9.380	9	+15	3.663	307	20.077	63
	10.781	0.4416	0.53599	317	+293	9.389	9	−18	3.356	307	20.140	58
	11.778	0.4443	+0.53916		+226	+9.398		−50	− 3.049		−20.198	

Reduktionsgrößen 1940

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1940	s			in 0.00001	"		in ".001	"		"	
Juni 11.778	0.4443	+0.53916	317	+226	+9.398	8	−50	−3.049	308	−20.198	53
12.775	0.4470	0.54233	318	+101	9.406	8	−69	2.741	310	20.251	47
13.772	0.4498	0.54551	318	− 60	9.414	7	−73	2.431	310	20.298	41
14.770	0.4525	0.54869	320	−204	9.421	6	−59	2.121	310	20.339	36
15.767	0.4552	0.55189	320	−299	9.427	6	−30	1.811	311	20.375	30
16.764	0.4579	0.55509	320	−316	9.433	5	+ 5	1.500	311	20.405	24
17.762	0.4607	+0.55829	320	−252	+9.438	4	+39	−1.189	311	−20.429	18
18.759	0.4634	0.56149	320	−122	9.442	4	+64	0.878	312	20.447	13
19.756	0.4661	0.56469	320	+ 42	9.446	4	+74	0.566	312	20.460	7
20.753	0.4689	0.56789	321	+207	9.450	3	+71	−0.254	312	20.467	2
21.751	0.4716	0.57110	322	+338	9.453	3	+51	+0.058	312	20.469	− 4
22.748	0.4743	0.57432	321	+406	9.456	1	+22	0.370	312	20.465	9
23.745	0.4771	+0.57753	321	+406	+9.457	1	− 7	+0.682	311	−20.456	15
24.742	0.4798	0.58074	320	+340	9.458	0	−36	0.993	311	20.441	21
25.740	0.4825	0.58394	319	+221	9.458	1	−57	1.304	311	20.420	26
26.737	0.4853	0.58713	319	+ 72	9.457	1	−69	1.615	311	20.394	32
27.734	0.4880	0.59032	319	− 92	9.456	1	−68	1.926	310	20.362	38
28.732	0.4907	0.59351	318	−238	9.455	2	−55	2.236	309	20.324	43
29.729	0.4934	+0.59669	317	−349	+9.453	3	−33	+2.545	308	−20.281	49
30.726	0.4962	0.59986	317	−410	9.450	3	− 4	2.853	307	20.232	55
Juli 1.723	0.4989	0.60303	315	−400	9.447	4	+26	3.160	307	20.177	60
2.721	0.5016	0.60618	314	−322	9.443	4	+52	3.467	306	20.117	65
3.718	0.5044	0.60932	313	−189	9.439	5	+69	3.773	305	20.052	71
4.715	0.5071	0.61245	313	− 24	9.434	6	+71	4.078	303	19.981	76
5.712	0.5098	+0.61558	311	+140	+9.428	6	+58	+4.381	303	−19.905	82
6.710	0.5126	0.61869	310	+260	9.422	7	+31	4.684	301	19.823	87
7.707	0.5153	0.62179	308	+315	9.415	7	− 6	4.985	300	19.736	93
8.704	0.5180	0.62487	307	+284	9.408	7	−39	5.285	298	19.643	99
9.701	0.5207	0.62794	305	+187	9.401	8	−65	5.583	296	19.544	104
10.699	0.5235	0.63099	303	+ 33	9.393	9	−74	5.879	295	19.440	109
11.696	0.5262	+0.63402	301	−122	+9.384	10	−67	+6.174	293	−19.331	114
12.693	0.5289	0.63703	300	−243	9.374	9	−43	6.467	292	19.217	119
13.691	0.5317	0.64003	299	−295	9.365	10	− 7	6.759	290	19.098	125
14.688	0.5344	0.64302	297	−263	9.355	10	+28	7.049	288	18.973	131
15.685	0.5371	0.64599	294	−165	9.345	11	+55	7.337	286	18.842	136
16.682	0.5399	0.64893	292	− 16	9.334	11	+72	7.623	285	18.706	141
17.680	0.5426	+0.65185	291	+146	+9.323	12	+72	+7.908	282	−18.565	145
18.677	0.5453	0.65476	289	+284	9.311	12	+59	8.190	279	18.420	150
19.674	0.5481	0.65765	286	+372	9.299	13	+34	8.469	277	18.270	155
20.671	0.5508	0.66051	284	+399	9.286	13	+ 3	8.746	275	18.115	161
21.669	0.5535	0.66335	281	+357	9.273	14	−26	9.021	272	17.954	167
22.666	0.5562	+0.66616		+263	+9.259		−50	+9.293		−17.787	

Reduktionsgrößen 1940

für 12h Sternzeit Greenwich

Welt-Zeit		t	A		A′	B		B′	C		D	
1940		s			in 0.00001	"		in 0."001	"		"	
Juli	22.666	0.5562	+0.66616	279	+263	+9.259	13	−50	+ 9.293	270	−17.787	172
	23.663	0.5590	0.66895	277	+128	9.246	14	−65	9.563	268	17.615	176
	24.661	0.5617	0.67172	274	− 29	9.232	14	−69	9.831	266	17.439	180
	25.658	0.5644	0.67446	272	−182	9.218	14	−61	10.097	263	17.259	185
	26.655	0.5672	0.67718	269	−314	9.204	14	−44	10.360	259	17.074	190
	27.652	0.5699	0.67987	267	−403	9.190	15	−16	10.619	256	16.884	195
	28.650	0.5726	+0.68254	265	−428	+9.175	15	+12	+10.875	252	−16.689	200
	29.647	0.5754	0.68519	262	−385	9.160	16	+42	11.127	250	16.489	204
	30.644	0.5781	0.68781	259	−280	9.144	15	+65	11.377	247	16.285	208
	31.641	0.5808	0.69040	256	−125	9.129	16	+74	11.624	244	16.077	213
Aug.	1.639	0.5835	0.69296	254	+ 46	9.113	16	+68	11.868	241	15.864	218
	2.636	0.5863	0.69550	250	+197	9.097	16	+43	12.109	238	15.646	222
	3.633	0.5890	+0.69800	248	+290	+9.081	16	+ 9	+12.347	234	−15.424	226
	4.630	0.5917	0.70048	246	+303	9.065	17	−26	12.581	230	15.198	231
	5.628	0.5945	0.70294	243	+235	9.048	16	−57	12.811	227	14.967	235
	6.625	0.5972	0.70537	240	+106	9.032	16	−74	13.038	224	14.732	239
	7.622	0.5999	0.70777	237	− 48	9.016	16	−73	13.262	220	14.493	243
	8.620	0.6027	0.71014	235	−183	9.000	17	−53	13.482	216	14.250	247
	9.617	0.6054	+0.71249	232	−262	+8.983	16	−23	+13.698	213	−14.003	251
	10.614	0.6081	0.71481	230	−257	8.967	16	+13	13.911	209	13.752	255
	11.611	0.6109	0.71711	226	−180	8.951	16	+47	14.120	205	13.497	260
	12.609	0.6136	0.71937	223	− 47	8.935	16	+67	14.325	200	13.237	264
	13.606	0.6163	0.72160	221	+112	8.919	16	+74	14.525	197	12.973	267
	14.603	0.6190	0.72381	218	+257	8.903	16	+66	14.722	193	12.706	270
	15.600	0.6218	+0.72599	215	+362	+8.887	16	+42	+14.915	189	−12.436	273
	16.598	0.6245	0.72814	213	+402	8.871	15	+14	15.104	185	12.163	277
	17.595	0.6272	0.73027	210	+380	8.856	15	−15	15.289	180	11.886	281
	18.592	0.6300	0.73237	208	+302	8.841	15	−41	15.469	176	11.605	284
	19.590	0.6327	0.73445	205	+182	8.826	15	−59	15.645	172	11.321	287
	20.587	0.6354	0.73650	202	+ 36	8.811	14	−67	15.817	168	11.034	290
	21.584	0.6382	+0.73852	200	−116	+8.797	14	−64	+15.985	164	−10.744	294
	22.581	0.6409	0.74052	197	−256	8.783	14	−49	16.149	159	10.450	298
	23.579	0.6436	0.74249	195	−364	8.769	14	−28	16.308	154	10.152	301
	24.576	0.6463	0.74444	192	−424	8.755	14	− 1	16.462	149	9.851	302
	25.573	0.6491	0.74636	190	−420	8.741	14	+29	16.611	145	9.549	305
	26.570	0.6518	0.74826	187	−348	8.727	13	+54	16.756	140	9.244	308
	27.568	0.6545	+0.75013	186	−221	+8.714	13	+72	+16.896	136	− 8.936	311
	28.565	0.6573	0.75199	184	− 57	8.701	12	+71	17.032	131	8.625	313
	29.562	0.6600	0.75383	182	+103	8.689	11	+57	17.163	125	8.312	316
	30.559	0.6627	0.75565	179	+226	8.678	11	+28	17.288	121	7.996	319
	31.557	0.6655	0.75744	178	+279	8.667	11	−10	17.409	116	7.677	321
Sept.	1.554	0.6682	+0.75922		+249	+8.656		−44	+17.525		− 7.356	

Reduktionsgrößen 1940

für 12^h Sternzeit Greenwich

Welt-Zeit		*t*	*A*		*A'*	*B*		*B'*	*C*		*D*	
1940		s			in 0.00001	"		in 0.001 "	"		"	
Sept.	1.554	0.6682	+0.75922	176	+249	+8.656	11	−44	+17.525	111	−7.356	323
	2.551	0.6709	0.76098	174	+145	8.645	10	−69	17.636	107	7.033	325
	3.549	0.6737	0.76272	171	+ 1	8.635	10	−76	17.743	101	6.708	327
	4.546	0.6764	0.76443	170	−143	8.625	9	−67	17.844	96	6.381	329
	5.543	0.6791	0.76613	168	−243	8.616	8	−39	17.940	91	6.052	331
	6.540	0.6818	0.76781	167	−269	8.608	8	− 3	18.031	86	5.721	333
	7.538	0.6846	+0.76948	166	−211	+8.600	7	+34	+18.117	81	−5.388	334
	8.535	0.6873	0.77114	164	− 85	8.593	7	+61	18.198	76	5.054	336
	9.532	0.6900	0.77278	163	+ 77	8.586	7	+75	18.274	71	4.718	338
	10.529	0.6928	0.77441	161	+237	8.579	6	+70	18.345	65	4.380	339
	11.527	0.6955	0.77602	159	+361	8.573	5	+53	18.410	60	4.041	341
	12.524	0.6982	0.77761	159	+426	8.568	4	+27	18.470	55	3.700	342
	13.521	0.7010	+0.77920	158	+421	+8.564	4	− 4	+18.525	50	−3.358	342
	14.519	0.7037	0.78078	158	+354	8.560	4	−33	18.575	44	3.016	344
	15.516	0.7064	0.78236	157	+240	8.556	3	−52	18.619	39	2.672	345
	16.513	0.7091	0.78393	156	+ 98	8.553	2	−64	18.658	33	2.327	345
	17.510	0.7119	0.78549	155	− 47	8.551	2	−64	18.691	28	1.982	347
	18.508	0.7146	0.78704	155	−190	8.549	1	−53	18.719	23	1.635	347
	19.505	0.7173	+0.78859	154	−307	+8.548	0	−37	+18.742	18	−1.288	348
	20.502	0.7201	0.79013	155	−385	8.548	0	−11	18.760	12	0.940	348
	21.499	0.7228	0.79168	154	−410	8.548	1	+17	18.772	6	0.592	349
	22.497	0.7255	0.79322	155	−371	8.549	2	+43	18.778	1	−0.243	349
	23.494	0.7283	0.79477	154	−276	8.551	2	+62	18.779	— 4	+0.106	349
	24.491	0.7310	0.79631	154	−137	8.553	3	+72	18.775	10	0.455	350
	25.488	0.7337	+0.79785	154	+ 17	+8.556	3	+66	+18.765	15	+0.805	350
	26.486	0.7365	0.79939	155	+151	8.559	4	+41	18.750	21	1.155	349
	27.483	0.7392	0.80094	155	+232	8.563	5	+ 7	18.729	26	1.504	348
	28.480	0.7419	0.80249	155	+238	8.568	6	−29	18.703	32	1.852	348
	29.478	0.7446	0.80404	156	+165	8.574	6	−59	18.671	37	2.200	348
	30.475	0.7474	0.80560	157	+ 34	8.580	6	−75	18.634	43	2.548	347
Okt.	1.472	0.7501	+0.80717	158	−114	+8.586	7	−74	+18.591	48	+2.895	346
	2.469	0.7528	0.80875	159	−238	8.593	8	−52	18.543	54	3.241	345
	3.467	0.7556	0.81034	159	−295	8.601	9	−21	18.489	59	3.586	345
	4.464	0.7583	0.81193	160	−270	8.610	9	+18	18.430	65	3.931	345
	5.461	0.7610	0.81353	162	−160	8.619	10	+51	18.365	70	4.276	343
	6.458	0.7638	0.81515	164	+ 3	8.629	11	+73	18.295	76	4.619	342
	7.456	0.7665	+0.81679	166	+184	+8.640	11	+75	+18.219	81	+4.961	341
	8.453	0.7692	0.81845	166	+337	8.651	12	+62	18.138	86	5.302	339
	9.450	0.7719	0.82011	168	+437	8.663	12	+36	18.052	91	5.641	338
	10.448	0.7747	0.82179	170	+461	8.675	12	+ 5	17.961	97	5.979	336
	11.445	0.7774	0.82349	171	+416	8.687	13	−24	17.864	103	6.315	335
	12.442	0.7801	+0.82520		+312	+8.700		−48	+17.761		+6.650	

Reduktionsgrößen 1940

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A	Diff.	A′	B	Diff.	B′	C	Diff.	D	Diff.
1940	a			in 0.00001	″		in 0.″001	″		″	
Okt. 12.442	0.7801	+0.82520	173	+312	+8.700	13	−48	+17.761	108	+ 6.650	333
13.439	0.7829	0.82693	175	+173	8.713	14	−62	17.653	113	6.983	330
14.437	0.7856	0.82868	178	+ 21	8.727	15	−66	17.540	118	7.313	328
15.434	0.7883	0.83046	180	−126	8.742	16	−58	17.422	124	7.641	326
16.431	0.7911	0.83226	182	−249	8.758	15	−42	17.298	129	7.967	325
17.428	0.7938	0.83408	183	−334	8.773	16	−18	17.169	134	8.292	323
18.426	0.7965	+0.83591	186	−376	+8.789	17	+ 6	+17.035	139	+ 8.615	321
19.423	0.7993	0.83777	190	−362	8.806	17	+35	16.896	144	8.936	318
20.420	0.8020	0.83967	192	−291	8.823	17	+57	16.752	150	9.254	315
21.418	0.8047	0.84159	194	−176	8.840	18	+70	16.602	155	9.569	312
22.415	0.8074	0.84353	197	− 33	8.858	18	+67	16.447	160	9.881	308
23.412	0.8102	0.84550	200	+101	8.876	18	+50	16.287	165	10.189	306
24.409	0.8129	+0.84750	202	+199	+8.894	19	+23	+16.122	169	+10.495	303
25.407	0.8156	0.84952	204	+230	8.913	19	−11	15.953	174	10.798	301
26.404	0.8184	0.85156	207	+183	8.932	20	−46	15.779	179	11.099	297
27.401	0.8211	0.85363	210	+ 68	8.952	20	−70	15.600	184	11.396	294
28.398	0.8238	0.85573	214	− 80	8.972	20	−76	15.416	189	11.690	290
29.396	0.8266	0.85787	217	−224	8.992	20	−64	15.227	194	11.980	287
30.393	0.8293	+0.86004	220	−318	+9.012	21	−37	+15.033	198	+12.267	283
31.390	0.8320	0.86224	223	−330	9.033	21	+ 1	14.835	203	12.550	280
Nov. 1.387	0.8347	0.86447	226	−254	9.054	21	+38	14.632	208	12.830	276
2.385	0.8375	0.86673	229	−104	9.075	20	+64	14.424	212	13.106	272
3.382	0.8402	0.86902	232	+ 81	9.095	21	+76	14.212	216	13.378	268
4.379	0.8429	0.87134	235	+265	9.116	21	+72	13.996	220	13.646	265
5.377	0.8457	+0.87369	238	+403	+9.137	21	+50	+13.776	224	+13.911	261
6.374	0.8484	0.87607	241	+474	9.158	21	+19	13.552	229	14.172	256
7.371	0.8511	0.87848	245	+460	9.179	21	−12	13.323	234	14.428	251
8.368	0.8539	0.88093	248	+379	9.200	21	−42	13.089	238	14.679	247
9.366	0.8566	0.88341	252	+249	9.221	21	−60	12.851	242	14.926	243
10.363	0.8593	0.88593	255	+ 94	9.242	21	−66	12.609	245	15.169	238
11.360	0.8621	+0.88848	258	− 61	+9.263	22	−64	+12.364	250	+15.407	233
12.357	0.8648	0.89106	261	−197	9.285	21	−50	12.114	253	15.640	229
13.355	0.8675	0.89367	264	−297	9.306	21	−28	11.861	257	15.869	225
14.352	0.8702	0.89631	266	−348	9.327	20	− 3	11.604	261	16.094	220
15.349	0.8730	0.89897	270	−348	9.347	21	+25	11.343	264	16.314	215
16.347	0.8757	0.90167	273	−292	9.368	20	+49	11.079	268	16.529	209
17.344	0.8784	+0.90440	276	−191	+9.388	20	+63	+10.811	271	+16.738	204
18.341	0.8812	0.90716	279	− 59	9.408	19	+67	10.540	275	16.942	199
19.338	0.8839	0.90995	282	+ 76	9.427	19	+58	10.265	278	17.141	194
20.336	0.8866	0.91277	286	+185	9.446	19	+35	9.987	281	17.335	188
21.333	0.8894	0.91563	288	+236	9.465	18	+ 3	9.706	284	17.523	183
22.330	0.8921	+0.91851		+216	+9.483		−30	+ 9.422		+17.706	

Reduktionsgrößen 1940

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1940	h			in 0.00001	″		in 0.″001	″		″	
Nov. 22.330	0.8921	+0.91851	290	+216	+9.483	18	−30	+9.422	287	+17.706	178
23.327	0.8948	0.92141	294	+124	9.501	18	−59	9.135	290	17.884	173
24.325	0.8975	0.92435	296	− 19	9.519	18	−73	8.845	293	18.057	167
25.322	0.9003	0.92731	299	−173	9.537	17	−70	8.552	296	18.224	161
26.319	0.9030	0.93030	303	−300	9.554	17	−51	8.256	299	18.385	156
27.316	0.9057	0.93333	304	−358	9.571	17	−17	7.957	301	18.541	150
28.314	0.9085	+0.93637	306	−329	+9.588	16	+20	+7.656	303	+18.691	144
29.311	0.9112	0.93943	309	−213	9.604	15	+53	7.353	306	18.835	139
30.308	0.9139	0.94252	312	− 40	9.619	15	+75	7.047	309	18.974	133
Dez. 1.306	0.9167	0.94564	314	+151	9.634	14	+74	6.738	311	19.107	126
2.303	0.9194	0.94878	316	+322	9.648	14	+61	6.427	312	19.233	120
3.300	0.9221	0.95194	318	+432	9.662	13	+34	6.115	314	19.353	114
4.297	0.9249	+0.95512	319	+465	+9.675	13	0	+5.801	316	+19.467	109
5.295	0.9276	0.95831	321	+420	9.688	12	−29	5.485	318	19.576	103
6.292	0.9303	0.96152	323	+313	9.700	11	−56	5.167	321	19.679	97
7.289	0.9330	0.96475	324	+163	9.711	11	−67	4.846	322	19.776	90
8.286	0.9358	0.96799	326	+ 4	9.722	10	−68	4.524	323	19.866	84
9.284	0.9385	0.97125	328	−147	9.732	10	−57	4.201	324	19.950	78
10.281	0.9412	+0.97453	329	−265	+9.742	9	−38	+3.877	326	+20.028	72
11.278	0.9440	0.97782	330	−333	9.751	8	−10	3.551	327	20.100	65
12.276	0.9467	0.98112	332	−351	9.759	8	+16	3.224	328	20.165	59
13.273	0.9494	0.98444	332	−310	9.767	7	+42	2.896	329	20.224	53
14.270	0.9522	0.98776	334	−218	9.774	7	+61	2.567	330	20.277	46
15.267	0.9549	0.99110	335	− 89	9.781	5	+71	2.237	331	20.323	40
16.265	0.9576	+0.99445	335	+ 51	+9.786	5	+63	+1.906	331	+20.363	34
17.262	0.9603	0.99780	336	+175	9.791	4	+43	1.575	331	20.397	27
18.259	0.9631	1.00116	336	+252	9.795	3	+14	1.244	332	20.424	21
19.256	0.9658	1.00452	336	+258	9.798	2	−18	0.912	333	20.445	14
20.254	0.9685	1.00788	337	+192	9.800	2	−48	0.579	333	20.459	8
21.251	0.9713	1.01125	337	+ 61	9.802	1	−68	+0.246	333	20.467	2
22.248	0.9740	+1.01462	337	− 93	+9.803	1	−73	−0.087	332	+20.469	5
23.245	0.9767	1.01799	337	−240	9.804	0	−57	0.419	333	20.464	11
24.243	0.9795	1.02136	336	−333	9.804	1	−32	0.752	333	20.453	18
25.240	0.9822	1.02472	336	−349	9.803	2	+ 4	1.085	332	20.435	24
26.237	0.9849	1.02808	336	−276	9.801	2	+38	1.417	332	20.411	30
27.235	0.9877	1.03144	335	−136	9.799	3	+65	1.749	332	20.381	37
28.232	0.9904	+1.03479	334	+ 45	+9.796	4	+75	−2.081	331	+20.344	43
29.229	0.9931	1.03813	333	+222	9.792	4	+70	2.412	330	20.301	50
30.226	0.9958	1.04146	332	+360	9.788	5	+46	2.742	329	20.251	57
31.224	0.9986	1.04478	331	+432	9.783	6	+16	3.071	328	20.194	62
32.221	1.0013	+1.04809		+427	+9.777		−16	−3.399		+20.132	

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1940.0$

t_1	$m^s(t_2-t_1)$	$n^s(t_2-t_1)$	$n''(t_2-t_1)$	$\log n^s(t_2-t_1)$	$\log n''(t_2-t_1)$
1755	+9 ᵐ 28.201 ˢ	+247.300 ˢ	+3709.49″	2.393223	3.569314
1790	7 40.753	200.498	3007.47	2.302111	3.478202
1800	7 10.049	187.128	2806.91	2.272138	3.448229
1810	6 39.343	173.758	2606.37	2.239944	3.416035
1825	5 53.281	153.704	2305.56	2.186685	3.362776
1830	+5 37.926	+147.020	+2205.29	2.167375	3.343466
1835	5 22.571	140.335	2105.03	2.147167	3.323258
1840	5 7.215	133.651	2004.77	2.125973	3.302064
1845	4 51.859	126.967	1904.51	2.103692	3.279783
1850	4 36.502	120.284	1804.25	2.080207	3.256298
1855	+4 21.145	+113.600	+1704.00	2.055378	3.231469
1860	4 5.787	106.917	1603.75	2.029045	3.205136
1865	3 50.429	100.233	1503.50	2.001012	3.177103
1870	3 35.070	93.550	1403.25	1.971044	3.147135
1875	3 19.711	86.867	1303.00	1.938854	3.114945
1880	+3 4.351	+ 80.184	+1202.76	1.90409	3.080179
1885	2 48.991	73.501	1102.52	1.86629	3.042385
1890	2 33.631	66.819	1002.28	1.82490	3.000988
1895	2 18.270	60.136	902.04	1.77914	2.955226
1900	2 2.908	53.454	801.80	1.72798	2.904069
1905	+1 47.546	+ 46.772	+ 701.57	1.66998	2.84607
1910	1 32.184	40.089	601.34	1.60303	2.77912
1915	1 16.821	33.408	501.11	1.52384	2.69993
1920	1 1.458	26.726	400.88	1.42693	2.60302
1925	0 46.094	20.044	300.66	1.30199	2.47808
1930	+0 30.730	+ 13.363	+ 200.44	1.12589	2.30198
1935	0 15.365	6.681	100.22	0.82485	2.00094
1940	0 0.000	0.000	0.00	$-\infty$	$-\infty$

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1940.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2 - t_1) + [n^s(t_2 - t_1)] \sin \alpha' \operatorname{tg} \delta'$$
$$\delta_2 = \delta_1 + [n''(t_2 - t_1)] \cos \alpha'$$

Übertragung mittlerer Polsternörter

von dem Äquinoktium t_1 auf $t_2 = 1940.0$

t_1	$90° - (N)$	$(m) + (N) - 90°$	(n)
1755	+71′ 0″.27	+71′ 2″.98	+61′ 49″.23
1790	57 34.82	57 36.60	50 7.33
1800	53 44.64	53 46.19	46 46.80
1810	49 54.44	49 55.78	43 26.27
1825	44 9.11	44 10.16	38 25.49
1830	+42 13.99	+42 14.95	+36 45.24
1835	40 18.86	40 19.74	35 4.98
1840	38 23.73	38 24.53	33 24.72
1845	36 28.60	36 29.31	31 44.47
1850	34 33.45	34 34.10	30 4.22
1855	+32 38.31	+32 38.88	+28 23.97
1860	30 43.16	30 43.66	26 43.73
1865	28 48.00	28 48.44	25 3.48
1870	26 52.83	26 53.22	23 23.23
1875	24 57.66	24 58.00	21 42.99
1880	+23 2.50	+23 2.78	+20 2.75
1885	21 7.32	21 7.56	18 22.51
1890	19 12.13	19 12.33	16 42.27
1895	17 16.94	17 17.10	15 2.04
1900	15 21.75	15 21.88	13 21.80
1905	+13 26.55	+13 26.65	+11 41.57
1910	11 31.35	11 31.42	10 1.34
1915	9 36.13	9 36.18	8 21.11
1920	7 40.92	7 40.95	6 40.89
1925	5 45.70	5 45.71	5 0.66
1930	+ 3 50.47	+ 3 50.48	+ 3 20.44
1935	1 55.24	1 55.24	1 40.22
1940	0 0.00	0 0.00	0 0.00

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1940.0$, so hat man

zur Reduktion von dem Äquinoktium t_1 auf t_2:

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p_1 = \left(\operatorname{tang} \delta_1 + \cos a_1 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m) + (N) - 90°] + \Delta a_1$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2}\Delta a_1) \sec \tfrac{1}{2}\Delta a_1 \operatorname{tang} \tfrac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1:

$$a_2 = \alpha_2 - [(m) + (N) - 90°]$$

$$p_2 = -\left(\operatorname{tang} \delta_2 - \cos a_2 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90° - (N)] + \Delta a_2$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_1 - \delta_2) = -\cos \left(a_2 + \tfrac{1}{2}\Delta a_2\right) \sec \tfrac{1}{2}\Delta a_2 \operatorname{tang} \tfrac{1}{2}(n)$$

Reduktion von Koordinatendifferenzen scheinbarer Örter auf Differenzen mittlerer Örter für den Jahresanfang.

Sind $\Delta\alpha$ und $\Delta\delta$ die gemessenen Koordinatendifferenzen der scheinbaren Örter im Sinne Objekt minus Stern, $d\Delta\alpha$ und $d\Delta\delta$ die an ihnen anzubringenden Korrektionen, um Koordinatendifferenzen zu erhalten, die sich auf das mittlere Äquinoktium des Jahresanfangs beziehen, so wird

$$d\Delta\alpha = (d\Delta\alpha)_1 + (d\Delta\alpha)_2$$
$$d\Delta\delta = (d\Delta\delta)_1 + (d\Delta\delta)_2,$$

wobei

$$(d\Delta\alpha)_1 = -j\cos(G+\alpha)\frac{\operatorname{tg}\delta}{15}\Delta\alpha^{m} - j\sin(G+\alpha)\frac{\sec^2\delta}{225}\Delta\delta'$$

$$(d\Delta\alpha)_2 = -k\cos(H+\alpha)\frac{\sec\delta}{15}\Delta\alpha^{m} - k\sin(H+\alpha)\frac{\operatorname{tg}\delta\sec\delta}{225}\Delta\delta'$$

$$(d\Delta\delta)_1 = j\sin(G+\alpha)\Delta\alpha^{m}$$

$$(d\Delta\delta)_2 = k\sin(H+\alpha)\sin\delta\,\Delta\alpha^{m} - k\cos(H+\alpha)\frac{\cos\delta}{15}\Delta\delta' + [0.0003\, i\sin\delta\,\Delta\delta']$$

Hierin bezeichnen $(d\Delta\alpha)_1$ und $(d\Delta\delta)_1$ den Einfluß der Präzession und Nutation, $(d\Delta\alpha)_2$ und $(d\Delta\delta)_2$ den Einfluß der Aberration.

Die Größen G, H, j, k, i sind auf S. 238* – 255* zu finden. Die Faktoren $\frac{1}{15}\operatorname{tg}\delta$, $\frac{1}{225}\sec^2\delta$, $\frac{1}{15}\sec\delta$, $\frac{1}{225}\operatorname{tg}\delta\sec\delta$, $\sin\delta$, $\frac{1}{15}\cos\delta$ entnehme man der Zusammenstellung auf S. 268*. Die numerischen Werte der Funktionen sinus und cosinus sind auf S. 269* enthalten. $\Delta\alpha^{m}$ bedeutet die in Zeitminuten ausgedrückte gemessene Rektaszensionsdifferenz, $\Delta\delta'$ ist die in Bogenminuten ausgedrückte gemessene Deklinationsdifferenz. Die Größen $d\Delta\alpha$ und $d\Delta\delta$ ergeben sich in Zeit- bzw. Bogensekunden. Das in eckige Klammern gesetzte Glied $0.0003\, i\sin\delta\,\Delta\delta'$ in der Formel für $(d\Delta\delta)_2$ beträgt für $\Delta\delta' = 10'$ im Maximum $0''.02$ und kann daher in den meisten Fällen unberücksichtigt bleiben.

δ	$\frac{1}{15}$ tg δ	$\frac{1}{225}$ sec²δ	$\frac{1}{15}$ sec δ	$\frac{1}{225}$ tg δ sec δ	sin δ	$\frac{1}{15}$ cos δ	tg δ	$\frac{1}{15}$ sec² δ	δ
0°	0.000	0.004	0.067	0.000	0.00	0.07	0.00	0.07	0°
5	0.006	0.004	0.067	0.000	0.09	0.07	0.09	0.07	5
10	0.012	0.005	0.068	0.001	0.17	0.07	0.18	0.07	10
15	0.018	0.005	0.069	0.001	0.26	0.06	0.27	0.07	15
20	0.024	0.005	0.071	0.002	0.34	0.06	0.36	0.08	20
25	0.031	0.005	0.074	0.002	0.42	0.06	0.47	0.08	25
30	0.038	0.006	0.077	0.003	0.50	0.06	0.58	0.09	30
35	0.047	0.007	0.081	0.004	0.57	0.05	0.70	0.10	35
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
40°	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40°
42	0.060	0.008	0.090	0.005	0.67	0.05	0.90	0.12	42
44	0.064	0.009	0.093	0.006	0.69	0.05	0.97	0.13	44
46	0.069	0.009	0.096	0.007	0.72	0.05	1.04	0.14	46
48	0.074	0.010	0.100	0.007	0.74	0.04	1.11	0.15	48
50	0.079	0.011	0.104	0.008	0.77	0.04	1.19	0.16	50
52	0.085	0.012	0.108	0.009	0.79	0.04	1.28	0.18	52
54	0.092	0.013	0.113	0.010	0.81	0.04	1.38	0.19	54
56	0.099	0.014	0.119	0.012	0.83	0.04	1.48	0.21	56
58	0.107	0.016	0.126	0.013	0.85	0.04	1.60	0.24	58
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
60°	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60°
61	0.120	0.019	0.138	0.017	0.87	0.03	1.80	0.28	61
62	0.125	0.020	0.142	0.018	0.88	0.03	1.88	0.30	62
63	0.131	0.022	0.147	0.019	0.89	0.03	1.96	0.32	63
64	0.137	0.023	0.152	0.021	0.90	0.03	2.05	0.35	64
65	0.143	0.025	0.158	0.023	0.91	0.03	2.14	0.37	65
66	0.150	0.027	0.164	0.025	0.91	0.03	2.25	0.40	66
67	0.157	0.029	0.171	0.027	0.92	0.03	2.36	0.44	67
68	0.165	0.032	0.178	0.029	0.93	0.02	2.48	0.48	68
69	0.174	0.035	0.186	0.032	0.93	0.02	2.61	0.52	69
70	0.183	0.038	0.195	0.036	0.94	0.02	2.75	0.57	70
71	0.194	0.042	0.205	0.040	0.95	0.02	2.90	0.63	71
72	0.205	0.047	0.216	0.044	0.95	0.02	3.08	0.70	72
73	0.218	0.052	0.228	0.050	0.96	0.02	3.27	0.78	73
74	0.232	0.058	0.242	0.056	0.96	0.02	3.49	0.88	74
75	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75
75.0°	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75.0°
75.5	0.258	0.071	0.266	0.069	0.97	0.02	3.87	1.06	75.5
76.0	0.267	0.076	0.276	0.074	0.97	0.02	4.01	1.14	76.0
76.5	0.278	0.082	0.286	0.079	0.97	0.02	4.17	1.22	76.5
77.0	0.289	0.088	0.296	0.086	0.97	0.01	4.33	1.32	77.0
77.5	0.301	0.095	0.308	0.093	0.98	0.01	4.51	1.42	77.5
78.0	0.314	0.103	0.321	0.101	0.98	0.01	4.70	1.54	78.0
78.5	0.328	0.112	0.334	0.110	0.98	0.01	4.92	1.68	78.5
79.0	0.343	0.122	0.349	0.120	0.98	0.01	5.14	1.83	79.0
79.5	0.360	0.134	0.366	0.132	0.98	0.01	5.40	2.01	79.5
80.0	0.378	0.147	0.384	0.145	0.98	0.01	5.67	2.21	80.0

	0^h	1^h	2^h	3^h	4^h	5^h	
0^m	0.000	0.259	0.500	0.707	0.866	0.966	60
1	0.004	0.263	0.504	0.710	0.868	0.967	59
2	0.009	0.267	0.508	0.713	0.870	0.968	58
3	0.013	0.271	0.511	0.716	0.872	0.969	57
4	0.017	0.276	0.515	0.719	0.875	0.970	56
5	0.022	0.280	0.519	0.722	0.877	0.971	55
6	0.026	0.284	0.522	0.725	0.879	0.972	54
7	0.031	0.288	0.526	0.728	0.881	0.973	53
8	0.035	0.292	0.530	0.731	0.883	0.974	52
9	0.039	0.297	0.534	0.734	0.885	0.975	51
10	0.044	0.301	0.537	0.737	0.887	0.976	50
11	0.048	0.305	0.541	0.740	0.889	0.977	49
12	0.052	0.309	0.545	0.743	0.891	0.978	48
13	0.057	0.313	0.548	0.746	0.893	0.979	47
14	0.061	0.317	0.552	0.749	0.895	0.980	46
15	0.065	0.321	0.556	0.752	0.897	0.981	45
16	0.070	0.326	0.559	0.755	0.899	0.982	44
17	0.074	0.330	0.563	0.758	0.901	0.982	43
18	0.078	0.334	0.566	0.760	0.903	0.983	42
19	0.083	0.338	0.570	0.763	0.904	0.984	41
20	0.087	0.342	0.574	0.766	0.906	0.985	40
21	0.092	0.346	0.577	0.769	0.908	0.986	39
22	0.096	0.350	0.581	0.772	0.910	0.986	38
23	0.100	0.354	0.584	0.774	0.912	0.987	37
24	0.105	0.358	0.588	0.777	0.914	0.988	36
25	0.109	0.362	0.591	0.780	0.915	0.988	35
26	0.113	0.367	0.595	0.783	0.917	0.989	34
27	0.118	0.371	0.598	0.785	0.919	0.990	33
28	0.122	0.375	0.602	0.788	0.921	0.990	32
29	0.126	0.379	0.605	0.791	0.922	0.991	31
30	0.131	0.383	0.609	0.793	0.924	0.991	30
31	0.135	0.387	0.612	0.796	0.926	0.992	29
32	0.139	0.391	0.616	0.799	0.927	0.993	28
33	0.143	0.395	0.619	0.801	0.929	0.993	27
34	0.148	0.399	0.623	0.804	0.930	0.994	26
35	0.152	0.403	0.626	0.806	0.932	0.994	25
36	0.156	0.407	0.629	0.809	0.934	0.995	24
37	0.161	0.411	0.633	0.812	0.935	0.995	23
38	0.165	0.415	0.636	0.814	0.937	0.995	22
39	0.169	0.419	0.639	0.817	0.938	0.996	21
40	0.174	0.423	0.643	0.819	0.940	0.996	20
41	0.178	0.427	0.646	0.822	0.941	0.997	19
42	0.182	0.431	0.649	0.824	0.943	0.997	18
43	0.187	0.434	0.653	0.827	0.944	0.997	17
44	0.191	0.438	0.656	0.829	0.946	0.998	16
45	0.195	0.442	0.659	0.831	0.947	0.998	15
46	0.199	0.446	0.663	0.834	0.948	0.998	14
47	0.204	0.450	0.666	0.836	0.950	0.998	13
48	0.208	0.454	0.669	0.839	0.951	0.999	12
49	0.212	0.458	0.672	0.841	0.952	0.999	11
50	0.216	0.462	0.676	0.843	0.954	0.999	10
51	0.221	0.466	0.679	0.846	0.955	0.999	9
52	0.225	0.469	0.682	0.848	0.956	0.999	8
53	0.229	0.473	0.685	0.850	0.958	1.000	7
54	0.233	0.477	0.688	0.853	0.959	1.000	6
55	0.238	0.481	0.692	0.855	0.960	1.000	5
56	0.242	0.485	0.695	0.857	0.961	1.000	4
57	0.246	0.489	0.698	0.859	0.962	1.000	3
58	0.250	0.492	0.701	0.862	0.964	1.000	2
59	0.255	0.496	0.704	0.864	0.965	1.000	1
60	0.259	0.500	0.707	0.866	0.966	1.000	0^m
	5^h	4^h	3^h	2^h	1^h	0^h	

Cosinus

Reduktionsgrößen 1940

Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1940.0 auf das Normaläquinoktium 1950.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
$0^h\ 0^m$	+0.0583+	+0.0000−	−0.000+	$24^h\ 0^m$	$6^h\ 0^m$	−0.0000−	+0.0583−	−0.875+	$18^h\ 0^m$
10	0582	0025	038	50	10	0025	0582	874	50
20	0581	0051	076	40	20	0051	0581	871	40
30	0578	0076	114	30	30	0076	0578	867	30
40	0574	0101	152	20	40	0101	0574	861	20
50	0569	0126	189	10	50	0126	0569	854	10
1 0	+0.0563+	+0.0151−	−0.226+	23 0	7 0	−0.0151−	+0.0563−	−0.845+	17 0
10	0556	0175	263	50	10	0175	0556	834	50
20	0548	0199	299	40	20	0199	0548	822	40
30	0539	0223	335	30	30	0223	0539	808	30
40	0528	0246	370	20	40	0246	0528	793	20
50	0517	0269	404	10	50	0269	0517	776	10
2 0	+0.0505+	+0.0291−	−0.437+	22 0	8 0	−0.0291−	+0.0505−	−0.757+	16 0
10	0492	0313	470	50	10	0313	0492	738	50
20	0478	0334	502	40	20	0334	0478	716	40
30	0463	0355	532	30	30	0355	0463	694	30
40	0447	0375	562	20	40	0375	0447	670	20
50	0430	0394	591	10	50	0394	0430	645	10
3 0	+0.0412+	+0.0412−	−0.618+	21 0	9 0	−0.0412−	+0.0412−	−0.618+	15 0
10	0394	0430	645	50	10	0430	0394	591	50
20	0375	0447	670	40	20	0447	0375	562	40
30	0355	0463	694	30	30	0463	0355	532	30
40	0334	0478	716	20	40	0478	0334	502	20
50	0313	0492	738	10	50	0492	0313	470	10
4 0	+0.0291+	+0.0505−	−0.757+	20 0	10 0	−0.0505−	+0.0291−	−0.437+	14 0
10	0269	0517	776	50	10	0517	0269	404	50
20	0246	0528	793	40	20	0528	0246	370	40
30	0223	0539	808	30	30	0539	0223	335	30
40	0199	0548	822	20	40	0548	0199	299	20
50	0175	0556	834	10	50	0556	0175	263	10
5 0	+0.0151+	+0.0563−	−0.845+	19 0	11 0	−0.0563−	+0.0151−	−0.226+	13 0
10	0126	0569	854	50	10	0569	0126	189	50
20	0101	0574	861	40	20	0574	0101	152	40
30	0076	0578	867	30	30	0578	0076	114	30
40	0051	0581	871	20	40	0581	0051	076	20
50	0025	0582	874	10	50	0582	0025	038	10
6 0	+0.0000+	+0.0583−	−0.875+	18 0	12 0	−0.0583−	+0.0000−	−0.000+	12 0

Für α zwischen 12^h und 24^h gelten die Vorzeichen zur Rechten.

$$\Delta\alpha_{1950.0} = \Delta\alpha_{1940.0} + a_1 \cdot \operatorname{tg}\delta \cdot \Delta\alpha^m + a_2 \cdot \frac{1}{15}\sec^2\delta \cdot \Delta\delta';$$

$$\Delta\delta_{1950.0} = \Delta\delta_{1940.0} + d_1 \cdot \Delta\alpha^m$$

$\Delta\alpha^m$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ ist die Deklinationsdifferenz in Bogenminuten.

Die Werte von $\operatorname{tg}\delta$ und $\frac{1}{15}\sec^2\delta$ sind auf S. 268* enthalten.

Reduktionsgrößen 1940

Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium

0ʰ Welt-Zeit	f	log g	G	0ʰ Welt-Zeit	f	log g	G
1940	s		h m s	1940	s		h m s
Jan. −3	−30.288	2.29610	11 49 40	Juni 30	−28.895	2.27576	11 48 31
+2	30.236	2.29535	11 49 40	Juli 5	28.846	2.27503	11 48 31
7	30.185	2.29461	11 49 40	10	28.799	2.27431	11 48 32
12	30.135	2.29389	11 49 42	15	28.752	2.27360	11 48 35
17	30.087	2.29320	11 49 45	20	28.707	2.27291	11 48 38
22	−30.041	2.29253	11 49 49	25	−28.664	2.27225	11 48 42
27	29.997	2.29189	11 49 53	30	28.623	2.27162	11 48 46
Febr. 1	29.956	2.29128	11 49 58	Aug. 4	28.583	2.27101	11 48 51
6	29.917	2.29071	11 50 3	9	28.546	2.27043	11 48 56
11	29.881	2.29017	11 50 7	14	28.511	2.26988	11 49 1
16	−29.847	2.28967	11 50 12	19	−28.478	2.26937	11 49 6
21	29.815	2.28920	11 50 17	24	28.447	2.26890	11 49 11
26	29.785	2.28877	11 50 21	29	28.418	2.26845	11 49 15
März 2	29.757	2.28836	11 50 24	Sept. 3	28.390	2.26802	11 49 19
7	29.731	2.28798	11 50 26	8	28.364	2.26762	11 49 21
12	−29.706	2.28761	11 50 27	13	−28.339	2.26723	11 49 23
17	29.682	2.28726	11 50 26	18	28.315	2.26686	11 49 24
22	29.658	2.28692	11 50 25	23	28.291	2.26650	11 49 23
27	29.634	2.28657	11 50 23	28	28.267	2.26614	11 49 21
April 1	29.609	2.28622	11 50 19	Okt. 3	28.243	2.26577	11 49 18
6	−29.584	2.28585	11 50 15	8	−28.219	2.26539	11 49 14
11	29.557	2.28546	11 50 9	13	28.193	2.26500	11 49 9
16	29.529	2.28505	11 50 2	18	28.165	2.26458	11 49 3
21	29.499	2.28462	11 49 55	23	28.136	2.26414	11 48 56
26	29.468	2.28416	11 49 47	28	28.105	2.26367	11 48 48
Mai 1	−29.434	2.28367	11 49 39	Nov. 2	−28.071	2.26316	11 48 40
6	29.398	2.28315	11 49 30	7	28.035	2.26262	11 48 31
11	29.359	2.28260	11 49 22	12	27.996	2.26204	11 48 22
16	29.319	2.28202	11 49 14	17	27.955	2.26141	11 48 13
21	29.277	2.28141	11 49 6	22	27.912	2.26075	11 48 5
26	−29.233	2.28077	11 48 59	27	−27.866	2.26006	11 47 57
31	29.187	2.28010	11 48 52	Dez. 2	27.819	2.25933	11 47 50
Juni 5	29.140	2.27940	11 48 46	7	27.770	2.25857	11 47 43
10	29.092	2.27869	11 48 40	12	27.719	2.25779	11 47 38
15	29.043	2.27796	11 48 36	17	27.668	2.25699	11 47 35
20	−28.994	2.27723	11 48 33	22	−27.616	2.25618	11 47 32
25	28.944	2.27649	11 48 32	27	27.564	2.25536	11 47 31
30	−28.895	2.27576	11 48 31	32	−27.513	2.25454	11 47 31

Die mit den vorstehend gegebenen Größen f, $\log g$ und G berechnete Reduktion vom mittleren Äquinoktium 1950.0 auf das wahre Äquinoktium der Epoche bedarf noch einer Verbesserung, die von dem Einfluß der Variatio saecularis herrührt und auf Seite 272* und 273* enthalten ist. Es wird somit: Red. in $\alpha = f + \frac{1}{15}\, g \sin(G+\alpha)\, \mathrm{tg}\, \delta$ + Korr. nach S. 272*

Red. in $\delta = g \cos(G+\alpha)$ + Korr. nach S. 273*

Korrektion der Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium (s. S. 271*), berechnet für 1940.0, mit Hinzufügung ihrer einjährigen Änderung.

Für Rektaszension (in $0\overset{s}{.}001$)

α	δ															
	+60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
h																
0	+27	−5	+19	−4	+10	−2	+4	−1	−2	0	−8	+2	−17	+3	−25	+5
1	+37	−7	+24	−5	+12	−2	+5	−1	0	0	−5	+1	−10	+2	−13	+3
2	+43	−9	+27	−5	+13	−3	+6	−1	+2	0	−2	0	−3	+1	−2	0
3	+42	−8	+26	−5	+12	−2	+6	−1	+3	−1	0	0	+1	0	+6	−1
4	+33	−7	+20	−4	+10	−2	+5	−1	+3	−1	+1	0	+3	−1	+8	−2
5	+19	−4	+11	−2	+6	−1	+3	−1	+2	0	+2	0	+3	−1	+6	−1
6	0	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0
7	−18	+4	−10	+2	−4	+1	−2	0	0	0	+1	0	0	0	−3	+1
8	−32	+6	−19	+4	−8	+2	−3	+1	−1	0	+1	0	−1	0	−5	+1
9	−40	+8	−24	+5	−11	+2	−4	+1	−1	0	+2	0	+1	0	−3	+1
10	−41	+8	−25	+5	−11	+2	−4	+1	0	0	+4	−1	+6	−1	+4	−1
11	−36	+7	−23	+5	−10	+2	−3	+1	+2	0	+7	−1	+12	−2	+15	−3
12	−25	+5	−17	+3	−8	+2	−2	0	+4	−1	+10	−2	+19	−4	+27	−5
13	−13	+3	−10	+2	−5	+1	0	0	+5	−1	+12	−2	+24	−5	+37	−7
14	−2	0	−3	+1	−2	0	+2	0	+6	−1	+13	−3	+27	−5	+43	−9
15	+6	−1	+1	0	0	0	+3	−1	+6	−1	+12	−2	+26	−5	+42	−8
16	+8	−2	+3	−1	+1	0	+3	−1	+5	−1	+10	−2	+20	−4	+33	−7
17	+6	−1	+3	−1	+2	0	+2	0	+3	−1	+6	−1	+11	−2	+19	−4
18	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	0	0
19	−3	+1	0	0	+1	0	0	0	−2	0	−4	+1	−10	+2	−18	+4
20	−5	+1	−1	0	+1	0	−1	0	−3	+1	−8	+2	−19	+4	−32	+6
21	−3	+1	+1	0	+2	0	−1	0	−4	+1	−11	+2	−24	+5	−40	+8
22	+4	−1	+6	−1	+4	−1	0	0	−4	+1	−11	+2	−25	+5	−41	+8
23	+15	−3	+12	−2	+7	−1	+2	0	−3	+1	−10	+2	−23	+5	−36	+7
24	+27	−5	+19	−4	+10	−2	+4	−1	−2	0	−8	+2	−17	+3	−25	+5

Korrektion der Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium (s. S. 271*), berechnet für 1940.0, mit Hinzufügung ihrer einjährigen Änderung.

Für Deklination (in 0".01)

α	δ															
	+60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
0^h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	−7	+1	−7	+1	−7	+1	−6	+1	−6	+1	−6	+1	−5	+1	−5	+1
2	−16	+3	−14	+3	−13	+3	−12	+2	−11	+2	−10	+2	−9	+2	−7	+1
3	−25	+5	−22	+4	−19	+4	−17	+3	−15	+3	−13	+3	−10	+2	−8	+2
4	−32	+6	−28	+6	−24	+5	−21	+4	−18	+4	−15	+3	−11	+2	−7	+1
5	−37	+8	−32	+7	−27	+5	−23	+5	−20	+4	−16	+3	−11	+2	−6	+1
6	−39	+8	−34	+7	−28	+6	−24	+5	−21	+4	−17	+3	−11	+2	−5	+1
7	−37	+7	−32	+6	−27	+5	−23	+5	−20	+4	−16	+3	−11	+2	−6	+1
8	−32	+6	−28	+6	−23	+5	−20	+4	−18	+4	−15	+3	−10	+2	−6	+1
9	−24	+5	−21	+4	−18	+4	−16	+3	−15	+3	−13	+3	−10	+2	−7	+1
10	−15	+3	−14	+3	−12	+2	−11	+2	−10	+2	−9	+2	−8	+2	−7	+1
11	−6	+1	−6	+1	−6	+1	−5	+1	−5	+1	−5	+1	−5	+1	−4	+1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+5	−1	+5	−1	+6	−1	+6	−1	+6	−1	+7	−1	+7	−1	+7	−1
14	+7	−1	+9	−2	+10	−2	+11	−2	+12	−2	+13	−3	+14	−3	+16	−3
15	+8	−2	+10	−2	+13	−3	+15	−3	+17	−3	+19	−4	+22	−4	+25	−5
16	+7	−1	+11	−2	+15	−3	+18	−4	+21	−4	+24	−5	+28	−6	+32	−6
17	+6	−1	+11	−2	+16	−3	+20	−4	+23	−5	+27	−5	+32	−7	+37	−8
18	+5	−1	+11	−2	+17	−3	+21	−4	+24	−5	+28	−6	+34	−7	+39	−8
19	+6	−1	+11	−2	+16	−3	+20	−4	+23	−5	+27	−5	+32	−6	+37	−7
20	+6	−1	+10	−2	+15	−3	+18	−4	+20	−4	+23	−5	+28	−6	+32	−6
21	+7	−1	+10	−2	+13	−3	+15	−3	+16	−3	+18	−4	+21	−4	+24	−5
22	+7	−1	+8	−2	+9	−2	+10	−2	+11	−2	+12	−2	+14	−3	+15	−3
23	+4	−1	+5	−1	+5	−1	+5	−1	+5	−1	+6	−1	+6	−1	+6	−1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

α	0^h, 12^h		1^h, 13^h		2^h, 14^h		3^h, 15^h		4^h, 16^h		5^h, 17^h		α
m	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	m
	s	″	s	″	s	″	s	″	s	″	s	″	
0	0.015	200.43	3.473	193.54	6.694	173.47	9.459	141.57	11.579	100.02	12.911	51.66	0
1	073	200.43	529	193.31	744	173.03	500	140.95	608	99.26	926	50.81	1
2	132	200.42	585	193.08	795	172.58	541	140.32	637	98.50	940	49.97	2
3	190	200.41	641	192.84	845	172.14	582	139.70	666	97.74	955	49.12	3
4	248	200.40	697	192.60	895	171.69	622	139.07	694	96.98	969	48.27	4
5	306	200.38	753	192.36	945	171.23	663	138.44	722	96.21	983	47.42	5
6	365	200.36	809	192.11	6.994	170.78	703	137.80	750	95.44	12.996	46.57	6
7	423	200.33	865	191.86	7.044	170.32	743	137.17	778	94.67	13.010	45.72	7
8	481	200.30	921	191.61	093	169.86	783	136.53	805	93.90	023	44.87	8
9	540	200.27	3.977	191.35	143	169.39	822	135.89	832	93.13	036	44.02	9
10	0.598	200.23	4.032	191.09	7.192	168.92	9.862	135.24	11.859	92.35	13.049	43.16	10
11	656	200.19	088	190.82	241	168.45	901	134.60	886	91.57	061	42.31	11
12	714	200.14	143	190.55	290	167.97	940	133.95	912	90.79	073	41.45	12
13	772	200.09	199	190.28	339	167.49	9.979	133.30	939	90.01	085	40.60	13
14	831	200.04	254	190.00	387	167.01	10.017	132.64	965	89.23	097	39.74	14
15	889	199.99	309	189.72	436	166.53	056	131.99	11.991	88.45	108	38.88	15
16	0.947	199.93	364	189.44	484	166.04	094	131.33	12.016	87.66	119	38.02	16
17	1.005	199.86	419	189.15	533	165.55	132	130.66	042	86.88	130	37.17	17
18	063	199.80	474	188.86	581	165.05	170	130.00	067	86.09	141	36.31	18
19	121	199.72	529	188.56	629	164.56	208	129.33	092	85.30	151	35.45	19
20	1.179	199.65	4.584	188.27	7.676	164.05	10.246	128.66	12.116	84.50	13.162	34.58	20
21	238	199.57	639	187.96	724	163.55	283	127.99	141	83.71	172	33.72	21
22	296	199.49	693	187.66	772	163.04	320	127.32	165	82.91	181	32.86	22
23	354	199.40	748	187.35	819	162.53	357	126.64	189	82.12	191	32.00	23
24	412	199.31	802	187.04	866	162.02	394	125.96	213	81.32	200	31.13	24
25	470	199.21	857	186.72	913	161.50	430	125.28	236	80.52	209	30.27	25
26	528	199.12	911	186.40	7.960	160.99	466	124.60	260	79.72	217	29.40	26
27	585	199.02	4.965	186.08	8.007	160.46	503	123.91	283	78.91	226	28.54	27
28	643	198.91	5.019	185.75	053	159.94	539	123.22	306	78.11	234	27.67	28
29	701	198.80	073	185.42	100	159.41	574	122.53	328	77.30	242	26.81	29
30	1.759	198.69	5.127	185.09	8.146	158.88	10.610	121.84	12.351	76.49	13.250	25.94	30
31	817	198.57	181	184.75	192	158.34	645	121.14	373	75.69	257	25.07	31
32	874	198.45	235	184.41	238	157.80	680	120.44	395	74.88	264	24.20	32
33	932	198.32	288	184.07	284	157.26	715	119.74	416	74.06	271	23.34	33
34	1.990	198.20	342	183.72	330	156.72	748	119.04	438	73.25	278	22.47	34
35	2.047	198.06	395	183.37	375	156.17	783	118.34	459	72.44	284	21.60	35
36	105	197.93	448	183.01	421	155.62	819	117.63	480	71.62	290	20.73	36
37	163	197.79	502	182.65	466	155.07	853	116.92	501	70.80	296	19.86	37
38	220	197.64	555	182.29	511	154.51	887	116.21	521	69.98	302	18.99	38
39	278	197.50	608	181.93	556	153.96	921	115.50	541	69.16	307	18.12	39
40	2.335	197.35	5.661	181.56	8.600	153.39	10.954	114.78	12.561	68.34	13.313	17.25	40
41	392	197.19	713	181.19	645	152.83	10.987	114.06	581	67.52	317	16.37	41
42	450	197.03	766	180.81	689	152.26	11.021	113.34	601	66.69	322	15.50	42
43	507	196.87	819	180.43	734	151.69	053	112.62	620	65.87	326	14.63	43
44	564	196.71	871	180.05	778	151.12	086	111.89	639	65.04	331	13.76	44
45	621	196.54	923	179.66	821	150.54	118	111.17	658	64.21	334	12.89	45
46	679	196.36	5.975	179.27	865	149.96	151	110.44	676	63.39	338	12.01	46
47	736	196.19	6.028	178.88	909	149.38	183	109.71	695	62.56	341	11.14	47
48	793	196.00	080	178.48	952	148.80	214	108.97	713	61.72	344	10.27	48
49	850	195.82	131	178.08	8.995	148.21	246	108.24	731	60.89	347	9.39	49
50	2.907	195.63	6.183	177.68	9.038	147.62	11.277	107.50	12.748	60.06	13.350	8.52	50
51	2.964	195.44	235	177.27	081	147.03	309	106.76	765	59.22	352	7.65	51
52	3.020	195.24	286	176.86	124	146.43	340	106.02	783	58.39	354	6.77	52
53	077	195.04	338	176.45	166	145.83	370	105.28	799	57.55	356	5.90	53
54	134	194.84	389	176.04	209	145.23	401	104.53	816	56.71	358	5.02	54
55	190	194.63	440	175.62	251	144.63	431	103.79	832	55.87	359	4.15	55
56	247	194.42	491	175.19	293	144.02	461	103.04	849	55.03	360	3.27	56
57	304	194.21	542	174.77	335	143.41	491	102.29	864	54.19	361	2.40	57
58	360	193.99	593	174.34	376	142.80	521	101.53	880	53.35	362	1.53	58
59	416	193.77	643	173.90	418	142.19	550	100.78	896	52.50	362	0.65	59
60	3.473	193.54	6.694	173.47	9.459	141.57	11.579	100.02	12.911	51.66	13.362	—	60

α	6h, 18h		7h, 19h		8h, 20h		9h, 21h		10h, 22h		11h, 23h		α
m	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	13.362	0.22	12.903	52.09	11.564	100.41	9.438	141.88	6.668	173.69	3.444	193.66	0
1	362	1.10	888	52.94	535	101.17	396	142.50	618	174.12	388	193.88	1
2	361	1.97	872	53.78	506	101.92	355	143.11	567	174.56	331	194.10	2
3	361	2.85	856	54.62	476	102.67	313	143.73	516	174.98	275	194.32	3
4	360	3.72	840	55.46	446	103.42	271	144.33	465	175.41	218	194.53	4
5	359	4.60	824	56.30	416	104.17	229	144.94	414	175.83	162	194.74	5
6	357	5.47	808	57.14	385	104.92	187	145.54	363	176.25	105	194.94	6
7	355	6.35	791	57.98	355	105.66	145	146.14	311	176.66	3.048	195.15	7
8	353	7.22	774	58.81	324	106.40	102	146.74	260	177.07	2.991	195.34	8
9	351	8.09	757	59.65	293	107.14	059	147.33	208	177.48	934	195.54	9
10	13.349	8.97	12.739	60.48	11.261	107.88	9.016	147.92	6.157	177.89	2.878	195.73	10
11	346	9.84	721	61.32	230	108.62	8.973	148.51	105	178.29	821	195.91	11
12	343	10.71	703	62.15	198	109.35	930	149.10	053	178.69	764	196.10	12
13	340	11.59	685	62.98	166	110.08	886	149.68	6.001	179.08	706	196.28	13
14	336	12.46	667	63.81	134	110.81	843	150.26	5.949	179.47	649	196.45	14
15	332	13.33	648	64.64	102	111.54	799	150.84	897	179.86	592	196.62	15
16	328	14.21	629	65.47	069	112.26	755	151.41	844	180.24	535	196.79	16
17	324	15.08	610	66.29	037	112.99	711	151.98	792	180.62	478	196.95	17
18	320	15.95	591	67.12	11.004	113.71	667	152.55	739	181.00	420	197.11	18
19	315	16.82	571	67.94	10.970	114.43	622	153.12	686	181.38	363	197.27	19
20	13.310	17.69	12.551	68.76	10.937	115.15	8.578	153.68	5.634	181.75	2.306	197.42	20
21	305	18.56	531	69.58	903	115.86	533	154.24	581	182.11	248	197.57	21
22	299	19.43	511	70.40	870	116.57	488	154.80	528	182.48	191	197.72	22
23	293	20.30	490	71.22	836	117.28	443	155.36	475	182.84	133	197.86	23
24	287	21.17	469	72.04	801	117.99	397	155.90	421	183.19	076	198.00	24
25	281	22.04	448	72.85	767	118.70	352	156.45	368	183.55	2.018	198.13	25
26	274	22.91	427	73.67	732	119.40	306	157.00	315	183.90	1.960	198.26	26
27	268	23.78	405	74.48	698	120.10	261	157.54	261	184.24	903	198.39	27
28	261	24.65	383	75.29	662	120.80	215	158.08	207	184.58	845	198.51	28
29	253	25.52	361	76.10	627	121.50	169	158.62	153	184.92	787	198.63	29
30	13.246	26.38	12.339	76.91	10.592	122.19	8.122	159.15	5.100	185.26	1.729	198.75	30
31	238	27.25	317	77.72	556	122.88	.076	159.68	5.046	185.59	671	198.86	31
32	230	28.12	294	78.52	520	123.57	8.030	160.21	4.992	185.92	614	198.96	32
33	222	28.98	271	79.32	484	124.26	7.983	160.73	938	186.24	556	199.07	33
34	213	29.85	248	80.13	448	124.95	936	161.25	884	186.57	498	199.17	34
35	204	30.71	224	80.93	411	125.63	889	161.77	829	186.88	440	199.26	35
36	195	31.58	201	81.73	375	126.31	842	162.28	775	187.20	382	199.36	36
37	186	32.44	177	82.53	338	126.99	795	162.80	720	187.51	324	199.44	37
38	176	33.30	153	83.32	301	127.66	747	163.30	666	187.82	266	199.53	38
39	167	34.16	128	84.12	264	128.34	700	163.81	611	188.12	208	199.61	39
40	13.156	35.03	12.104	84.91	10.226	129.01	7.652	164.31	4.556	188.42	1.150	199.69	40
41	146	35.89	079	85.70	189	129.67	604	164.81	501	188.72	092	199.76	41
42	136	36.75	054	86.49	151	130.34	556	165.31	446	189.01	1.034	199.83	42
43	125	37.61	029	87.28	113	131.00	508	165.80	391	189.30	0.975	199.90	43
44	114	38.46	12.003	88.06	075	131.66	460	166.29	336	189.58	917	199.96	44
45	102	39.32	11.977	88.85	10.036	132.32	411	166.78	281	189.87	859	200.02	45
46	091	40.18	951	89.63	9.998	132.98	363	167.26	226	190.14	801	200.07	46
47	079	41.04	925	90.41	959	133.63	314	167.74	170	190.42	743	200.12	47
48	067	41.89	899	91.19	920	134.28	265	168.22	115	190.69	684	200.17	48
49	055	42.75	872	91.97	881	134.93	216	168.69	059	190.96	626	200.21	49
50	13.042	43.60	11.845	92.75	9.841	135.57	7.167	169.16	4.004	191.22	0.568	200.25	50
51	029	44.45	818	93.52	802	136.22	118	169.63	3.948	191.48	510	200.28	51
52	016	45.31	791	94.29	762	136.86	068	170.09	892	191.74	451	200.32	52
53	13.003	46.16	763	95.07	722	137.49	7.019	170.55	837	191.99	393	200.34	53
54	12.989	47.01	736	95.83	682	138.13	6.969	171.01	781	192.24	335	200.37	54
55	976	47.86	708	96.60	642	138.76	919	171.47	725	192.49	277	200.39	55
56	962	48.71	679	97.37	602	139.39	869	171.92	669	192.73	218	200.40	56
57	947	49.55	651	98.13	561	140.02	819	172.37	613	192.97	160	200.41	57
58	933	50.40	622	98.89	520	140.64	769	172.81	556	193.20	102	200.42	58
59	918	51.25	594	99.65	479	141.27	719	173.25	500	193.43	0.043	200.43	59
60	12.903	52.09	11.564	100.41	9.438	141.88	6.668	173.69	3.444	193.66	—	200.43	60

Reduktionsgrößen 1940

Übertragung von Sternörtern vom mittleren Äquinoktium 1940.0 auf das Normaläquinoktium 1950.0

α	B	α	α	B	α
h m	s	h m	h m	s	h m
0 0	+30.732	12 0	6 0	+30.732	18 0
10	731	10	10	732	10
20	731	20	20	732	20
30	731	30	30	733	30
40	731	40	40	733	40
50	730	50	50	733	50
1 0	+30.730	13 0	7 0	+30.733	19 0
10	730	10	10	734	10
20	730	20	20	734	20
30	729	30	30	734	30
40	729	40	40	734	40
50	729	50	50	734	50
2 0	+30.729	14 0	8 0	+30.735	20 0
10	729	10	10	735	10
20	729	20	20	735	20
30	729	30	30	735	30
40	729	40	40	735	40
50	729	50	50	735	50
3 0	+30.729	15 0	9 0	+30.735	21 0
10	729	10	10	735	10
20	729	20	20	735	20
30	729	30	30	735	30
40	729	40	40	735	40
50	729	50	50	735	50
4 0	+30.729	16 0	10 0	+30.735	22 0
10	729	10	10	734	10
20	729	20	20	734	20
30	729	30	30	734	30
40	730	40	40	734	40
50	730	50	50	734	50
5 0	+30.730	17 0	11 0	+30.733	23 0
10	730	10	10	733	10
20	731	20	20	733	20
30	731	30	30	733	30
40	731	40	40	732	40
50	731	50	50	732	50
6 0	+30.732	18 0	12 0	+30.732	24 0

C	ΔC	P	C	ΔC	P
s	s		s	s	
0	e 0.000	e 0.0000	350	e 0.076	e 0.1909
10	000	0055	360	082	1963
20	000	0109	370	089	2018
30	000	0164	380	097	2072
40	000	0218	390	104	2127
50	e 0.000	e 0.0273	400	e 0.113	e 0.2181
60	000	0327	410	121	2236
70	001	0382	420	131	2290
80	001	0436	430	140	2345
90	001	0491	440	150	2399
100	e 0.002	e 0.0545	450	e 0.161	e 0.2454
110	002	0600	460	172	2508
120	003	0654	470	183	2563
130	004	0709	480	195	2617
140	005	0764	490	207	2672
150	e 0.006	e 0.0818	500	e 0.220	e 0.2726
160	007	0873	510	234	2781
170	009	0927	520	248	2835
180	010	0982	530	262	2890
190	012	1036	540	277	2944
200	e 0.014	e 0.1091	550	e 0.293	e 0.2999
210	016	1145	560	309	3053
220	019	1200	570	326	3107
230	022	1254	580	344	3162
240	025	1309	590	362	3216
250	e 0.028	e 0.1363	600	e 0.380	e 0.3271
260	031	1418	610	400	3325
270	035	1473	620	420	3380
280	039	1527	630	440	3434
290	043	1582	640	462	3489
300	e 0.048	e 0.1636	650	e 0.484	e 0.3543
310	053	1691	660	506	3598
320	058	1745	670	529	3652
330	063	1800	680	553	3707
340	069	1854	690	578	3761
350	e 0.076	e 0.1909	700	e 0.604	e 0.3815

e bedeutet: Vorzeichen entgegengesetzt dem Vorzeichen des Arguments.

$$\alpha_{1950} = \alpha_{1940} + B + C + \Delta C, \text{ wobei } C = A.\ \mathrm{tg}\,(\delta_{1940} + D)$$
$$\delta_{1950} = \delta_{1940} + D + R, \text{ wobei } R = A.\ P$$

A und D sind aus der Tafel S. 274* u. 275* mit dem Argument α_{1940} zu entnehmen. Für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten. B, ΔC und P sind in der obenstehenden Tafel enthalten. Die Vorzeichen von ΔC und P sind dem Vorzeichen von C entgegengesetzt.

Finsternisse, Merkurdurchgang, Sternbedeckungen, Mösting A, Trabanten

---

Konstellationen, Hilfstafeln

1940

Sonnenfinsternisse 1940

Im Jahre 1940 finden zwei Sonnenfinsternisse statt.

I. Ringförmige Sonnenfinsternis 1940 April 7 unsichtbar in Berlin.

Konjunktion in Rektaszension	April 7, 20ʰ 28ᵐ 38ˢ.8 Welt-Zeit

	h m s
Rektaszension des Mondes	1 5 53.77
Stündliche Änderung	1 55.30
Rektaszension der Sonne	1 5 53.77
Stündliche Änderung	9.16

	° ′ ″
Deklination des Mondes	+ 7 13 1.0
Stündliche Änderung	+ 8 49.0
Deklination der Sonne	+ 7 0 39.7
Stündliche Änderung	+ 56.3

	′ ″
Äquatorialhorizontalparallaxe des Mondes .	54 15.5
„ der Sonne . .	8.8

	′ ″
Halbmesser des Mondes	14 46.4
„ der Sonne	15 58.2

	Welt-Zeit (h m)	Westl. Länge v. Greenwich (° ′)	Geogr. Breite (° ′)
Anfang der Finsternis.	April 7, 17 17.4	167 46	− 8 39
Beginn der zentralen Verfinsterung.	„ 18 25.6	185 23	− 4 2
Zentrale Verfinsterung im wahren Mittag	„ 20 28.6	126 39	+20 20
Ende der zentralen Verfinsterung .	„ 22 16.1	59 33	+29 13
Ende der Finsternis	„ 23 24.3	77 19	+24 37

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. ringförm. Verfinst.	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. ringförm. Verfinst.
h m	° ′	° ′	m s	h m	° ′	° ′	m s
18 25.6	185 23	− 4 2	—	20 20	128 44.1	+19 4.8	7 30.4
18 30	171 12.2	− 1 33.2	5 34.7	20 40	123 47.4	+21 56.8	7 28.8
18 40	161 15.4	+ 1 16.8	5 58.3	21 0	118 15.1	+24 37.8	7 19.7
18 50	155 14.4	+ 3 34.4	6 15.9	21 20	111 37.1	+27 5.2	7 2.7
19 0	150 43.0	+ 5 38.3	6 30.7	21 40	103 0.2	+29 12.6	6 37.6
19 20	143 49.2	+ 9 23.5	6 54.9	22 0	90 5.6	+30 41.2	6 3.0
19 40	138 20.3	+12 49.7	7 12.8	22 10	79 3.9	+30 47.3	5 38.8
20 0	133 27.8	+16 2.6	7 24.9	22 15	68 7.7	+30 7.9	5 19.5
20 20	128 44.1	+19 4.8	7 30.4	22 16.1	59 33	+29 13	—

Die Finsternis ist sichtbar im Stillen Ozean, in Nordamerika mit Ausnahme des nordwestlichsten Teiles, in Mittelamerika, im Norden Südamerikas und im westlichen Teil des Atlantischen Ozeans.

Elemente der ringförmigen Sonnenfinsternis 1940 April 7

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m							
17 10	—1.610471	—0.254135	9.083412	9.996788	76° 58′ 5.7″	+0.568246	+0.022217
20	1.529426	0.229828	9.083570	9.996786	79 28 8.2	0.568248	0.022218
30	1.448377	0.205523	9.083728	9.996783	81 58 10.7	0.568248	0.022219
40	1.367324	0.181219	9.083886	9.996781	84 28 13.2	0.568248	0.022219
50	1.286268	0.156918	9.084044	9.996779	86 58 15.7	0.568247	0.022219
18 0	—1.205208	—0.132618	9.084202	9.996776	89 28 18.1	+0.568246	+0.022218
10	1.124145	0.108320	9.084359	9.996774	91 58 20.6	0.568244	0.022216
20	1.043079	0.084024	9.084517	9.996772	94 28 23.1	0.568242	0.022214
30	0.962010	0.059731	9.084675	9.996769	96 58 25.5	0.568239	0.022211
40	0.880938	0.035440	9.084832	9.996767	99 28 28.0	0.568236	0.022208
50	0.799864	—0.011150	9.084990	9.996765	101 58 30.5	0.568232	0.022204
19 0	—0.718788	+0.013137	9.085147	9.996762	104 28 33.0	+0.568228	+0.022200
10	0.637710	0.037422	9.085304	9.996760	106 58 35.5	0.568223	0.022195
20	0.556630	0.061704	9.085462	9.996758	109 28 38.0	0.568217	0.022190
30	0.475549	0.085983	9.085619	9.996755	111 58 40.4	0.568211	0.022184
40	0.394466	0.110260	9.085776	9.996753	114 28 42.9	0.568205	0.022177
50	0.313381	0.134534	9.085934	9.996751	116 58 45.4	0.568198	0.022170
20 0	—0.232295	+0.158805	9.086091	9.996748	119 28 47.8	+0.568190	+0.022163
10	0.151207	0.183074	9.086248	9.996746	121 58 50.3	0.568182	0.022155
20	—0.070119	0.207340	9.086405	9.996744	124 28 52.8	0.568173	0.022146
30	+0.010971	0.231604	9.086562	9.996741	126 58 55.2	0.568164	0.022137
40	0.092062	0.255866	9.086719	9.996739	129 28 57.7	0.568154	0.022127
50	0.173154	0.280126	9.086875	9.996737	131 59 0.2	0.568144	0.022117
21 0	+0.254247	+0.304383	9.087032	9.996734	134 29 2.6	+0.568133	+0.022106
10	0.335341	0.328638	9.087189	9.996732	136 59 5.1	0.568122	0.022094
20	0.416436	0.352891	9.087346	9.996729	139 29 7.6	0.568110	0.022082
30	0.497531	0.377141	9.087502	9.996726	141 59 10.0	0.568097	0.022070
40	0.578627	0.401389	9.087658	9.996724	144 29 12.5	0.568084	0.022057
50	0.659723	0.425634	9.087814	9.996722	146 59 15.0	0.568070	0.022043
22 0	+0.740818	+0.449875	9.087971	9.996719	149 29 17.4	+0.568056	+0.022029
10	0.821914	0.474113	9.088127	9.996717	151 59 19.9	0.568041	0.022015
20	0.903010	0.498348	9.088284	9.996715	154 29 22.4	0.568026	0.022000
30	0.984106	0.522580	9.088440	9.996712	156 59 24.8	0.568010	0.021984
40	1.065202	0.546808	9.088596	9.996710	159 29 27.3	0.567994	0.021968
50	1.146297	0.571033	9.088752	9.996708	161 59 29.8	0.567977	0.021951
23 0	+1.227390	+0.595256	9.088908	9.996705	164 29 32.2	+0.567960	+0.021933
10	1.308482	0.619476	9.089064	9.996703	166 59 34.7	0.567942	0.021914
20	1.389573	0.643693	9.089220	9.996701	169 29 37.2	0.567923	0.021894
30	+1.470662	+0.667906	9.089376	9.996698	171 59 39.6	+0.567904	+0.021875

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
17 0	+0.0081034	+0.0024309	7.66933	7.66716
18 0	0.0081061	0.0024299	7.66932	7.66715
19 0	0.0081077	0.0024286	7.66931	7.66715
20 0	0.0081087	0.0024270	7.66931	7.66714
21 0	0.0081094	0.0024256	7.66931	7.66714
22 0	0.0081096	0.0024239	7.66930	7.66713
23 0	0.0081092	0.0024222	7.66929	7.66713
24 0	+0.0081082	+0.0024204	7.66929	7.66712

II. Totale Sonnenfinsternis 1940 Oktober 1 unsichtbar in Berlin.

Konjunktion in Rektaszension . . .	Oktober 1,	12ʰ 52ᵐ 2.0ˢ Welt-Zeit
Rektaszension des Mondes		12ʰ 30ᵐ 4.37ˢ
Stündliche Änderung		2 25.65
Rektaszension der Sonne		12 30 4.37
Stündliche Änderung		9.06
Deklination des Mondes		— 3° 31′ 23.3″
Stündliche Änderung		— 11 45.8
Deklination der Sonne		— 3 14 51.2
Stündliche Änderung		— 58.2
Äquatorialhorizontalparallaxe des Mondes		1° 1′ 24.2″
„ der Sonne		8.8
Halbmesser des Mondes		16′ 43.1″
„ der Sonne		15 58.8

		Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
		h m	° ′	° ′
Anfang der Finsternis	Oktober	1, 10 8.2	64 10	+ 7 58
Beginn der zentralen Verfinsterung	„	11 4.3	78 30	+ 2 41
Zentrale Verfinsterung im wahren Mittag	„	12 52.0	15 36	—19 2
Ende der zentralen Verfinsterung	„	14 22.9	306 13	—32 36
Ende der Finsternis	„	15 19.0	320 39	—27 20

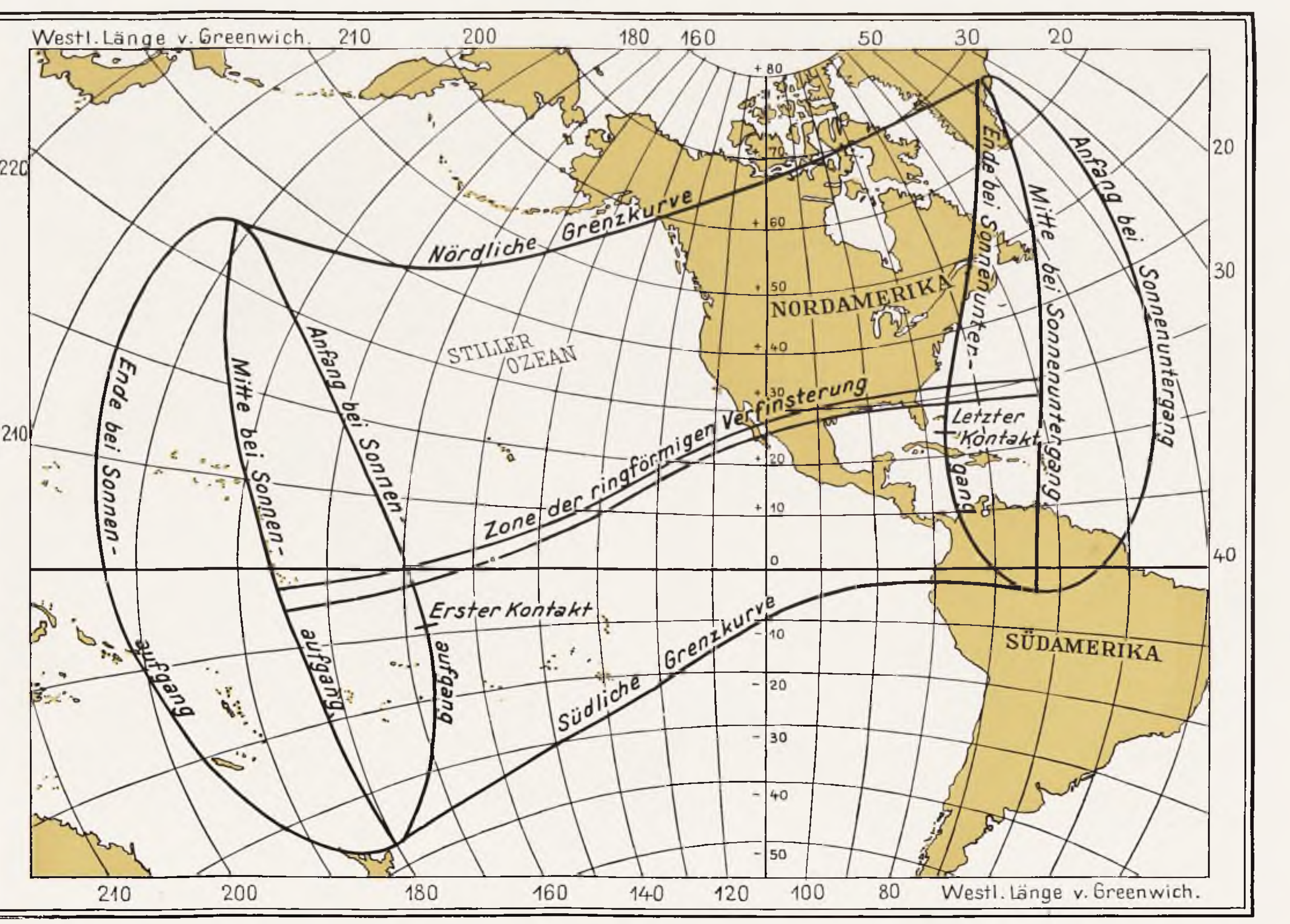
Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. Totalität	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. Totalität
h m	° ′	° ′	m s	h m	° ′	° ′	m s
11 4.3	78 30	+ 2 41	—	12 40	19 16.7	—16 54.0	5 35.1
11 5	72 8.5	+ 2 11.5	2 42.2	13 0	13 3.9	—20 25.8	5 31.8
11 10	61 11.6	+ 0 40.2	3 12.1	13 20	6 7.0	—23 53.5	5 16.4
11 20	51 12.0	— 1 40.1	3 46.4	13 40	357 35.1	—27 15.7	4 48.6
11 40	39 45.0	— 5 46.8	4 33.4	14 0	345 39.6	—30 27.1	4 7.1
12 0	31 52.6	— 9 36.8	5 5.9	14 10	336 48.2	—31 53.0	3 39.2
12 20	25 21.1	—13 18.2	5 26.4	14 20	321 26.1	—32 55.9	2 58.9
12 40	19 16.7	—16 54.0	5 35.1	14 22.9	306 13	—32 36	—

Die Finsternis ist sichtbar in Mittelamerika mit Ausnahme des nördlichen Teiles, auf Florida und auf den Antillen, in Südamerika mit Ausnahme der Südspitze, im Atlantischen Ozean mit Ausnahme des nördlichen Teiles, in Afrika südlich vom Äquator, auf Madagaskar und im südwestlichen Teil des Indischen Ozeans.

Ringförmige Sonnenfinsternis

1940 April 7



Zu Seite 278*



Totale Sonnenfinsternis

1940 Oktober 1

Zu Seite 280*



Elemente der totalen Sonnenfinsternis 1940 Oktober 1

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m					° ′ ″		
10 0	−1.595052	+0.235466	8.747040n	9.999322	332 34 14.4	+0.533732	−0.012124
10	1.502359	0.206078	8.747395n	9.999321	335 4 17.2	0.533742	0.012113
20	1.409662	0.176691	8.747750n	9.999320	337 34 20.0	0.533752	0.012103
30	1.316961	0.147304	8.748105n	9.999319	340 4 22.8	0.533761	0.012094
40	1.224256	0.117919	8.748460n	9.999317	342 34 25.6	0.533770	0.012086
50	1.131548	0.088535	8.748814n	9.999316	345 4 28.4	0.533778	0.012079
11 0	−1.038836	+0.059152	8.749168n	9.999315	347 34 31.3	+0.533785	−0.012072
10	0.946121	0.029771	8.749522n	9.999314	350 4 34.1	0.533791	0.012066
20	0.853403	+0.000391	8.749875n	9.999313	352 34 36.9	0.533797	0.012060
30	0.760683	−0.028988	8.750228n	9.999312	355 4 39.7	0.533802	0.012055
40	0.667961	0.058365	8.750581n	9.999310	357 34 42.5	0.533806	0.012051
50	0.575236	0.087741	8.750934n	9.999309	0 4 45.3	0.533809	0.012048
12 0	−0.482509	−0.117115	8.751286n	9.999308	2 34 48.2	+0.533812	−0.012045
10	0.389781	0.146488	8.751638n	9.999307	5 4 51.0	0.533814	0.012043
20	0.297051	0.175859	8.751990n	9.999306	7 34 53.8	0.533814	0.012042
30	0.204319	0.205228	8.752341n	9.999305	10 4 56.6	0.533815	0.012042
40	0.111586	0.234595	8.752692n	9.999303	12 34 59.4	0.533815	0.012042
50	−0.018853	0.263961	8.753043n	9.999302	15 5 2.2	0.533814	0.012043
13 0	+0.073882	−0.293325	8.753394n	9.999301	17 35 5.0	+0.533812	−0.012044
10	0.166617	0.322687	8.753744n	9.999300	20 5 7.8	0.533810	0.012046
20	0.259352	0.352048	8.754094n	9.999299	22 35 10.6	0.533807	0.012050
30	0.352087	0.381406	8.754444n	9.999298	25 5 13.4	0.533803	0.012054
40	0.444822	0.410762	8.754793n	9.999297	27 35 16.2	0.533798	0.012058
50	0.537556	0.440116	8.755142n	9.999296	30 5 19.0	0.533793	0.012063
14 0	+0.630290	−0.469467	8.755491n	9.999295	32 35 21.9	+0.533787	−0.012069
10	0.723023	0.498816	8.755839n	9.999294	35 5 24.7	0.533780	0.012076
20	0.815754	0.528162	8.756187n	9.999293	37 35 27.5	0.533773	0.012084
30	0.908483	0.557505	8.756535n	9.999292	40 5 30.3	0.533765	0.012092
40	1.001210	0.586846	8.756883n	9.999290	42 35 33.1	0.533756	0.012100
50	1.093935	0.616183	8.757231n	9.999289	45 5 35.9	0.533746	0.012110
15 0	+1.186657	−0.645517	8.757578n	9.999288	47 35 38.7	+0.533736	−0.012120
10	1.279376	0.674848	8.757925n	9.999287	50 5 41.5	0.533725	0.012131
20	+1.372091	−0.704176	8.758272n	9.999286	52 35 44.3	+0.533713	−0.012143

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
10 0	+0.0092692	−0.0029388	7.66942	7.66725
11 0	0.0092713	0.0029382	7.66943	7.66726
12 0	0.0092728	0.0029373	7.66943	7.66726
13 0	0.0092735	0.0029363	7.66944	7.66727
14 0	0.0092734	0.0029350	7.66944	7.66727
15 0	0.0092721	0.0029333	7.66945	7.66728
16 0	+0.0092692	−0.0029311	7.66945	7.66728

Merkurdurchgang 1940 November 11–12
unsichtbar in Berlin.

Konjunktion in Rektaszension	Nov. 11,	$23^h\ 49^m\ 21^s.6$	Welt-Zeit

Rektaszension des Merkur	$15^h\ 8^m\ 0^s.59$
Stündliche Änderung	— 12.53
Rektaszension der Sonne	15 8 0.59
Stündliche Änderung	+ 10.16
Deklination des Merkur	$-17°\ 29'\ 7''.7$
Stündliche Änderung	+ 1 44.1
Deklination der Sonne	—17 35 51.1
Stündliche Änderung	— 41.0
Äquatorialhorizontalparallaxe des Merkur .	$13''.01$
,, der Sonne . .	8.89
Halbmesser des Merkur	$4''.94$
,, der Sonne	16′ 9.72

Geozentrischer Verlauf des Durchganges

	Welt-Zeit	Positionswinkel
Eintritt, äußere Berührung	Nov. 11, $20^h\ 49^m\ 16^s.6$	$91°\ 53'$
,, innere ,, ...	,, 11, 20 51 5.0	91 39
Kleinster Abstand der Zentren 6′ 8″.3 .	,, 11, 23 21 34.3	
Austritt, innere Berührung	,, 12, 1 52 7.5	316 32
,, äußere ,, ...	,, 12, 1 53 55.9	316 17

Merkur steht zu diesen Zeiten im Zenit der Orte, deren geographische Lage ist:

136° 0′	westl. Länge von Greenwich,	17° 34′	südliche Breite
136 27	,, ,, ,, ,,	17 34	,, ,,
174 19	,, ,, ,, ,,	17 30	,, ,,
212 11	,, ,, ,, ,,	17 26	,, ,,
212 38	,, ,, ,, ,,	17 26	,, ,,

Der Eintritt ist sichtbar in Nordamerika mit Ausnahme des nordöstlichen Teiles, in Südamerika mit Ausnahme des östlichsten Teiles, im Stillen Ozean, im südlichen Eismeer, in Polynesien, auf Neu-Guinea und Neuseeland, im Osten Australiens und im äußersten Nordosten Asiens. Der Austritt ist sichtbar im äußersten Nordwesten Nordamerikas, im Stillen Ozean mit Ausnahme des östlichen Teiles, im südlichen Eismeer, in Polynesien, in Australien, im Indischen Ozean mit Ausnahme des westlichen Teiles, in Indien, auf den Sunda-Inseln und im Osten Asiens.

Für einen Ort mit der geozentrischen Breite φ' der Entfernung ϱ vom Erdmittelpunkt und der westlichen Länge λ von Greenwich ergibt sich die Welt-Zeit der einzelnen Phasen aus folgenden Formeln:

Eintr., äuß. Ber.,	$20^h\ 49^m\ 16^s.6$	$+\ 1^s.25\ \varrho \sin\varphi'$	$-45^s.13\ \varrho\cos\varphi'$	cos (	$44°\ 53'.3-\lambda$)
,, inn. ,,	20 51 5.0	$+\ 1.07\ \varrho \sin\varphi'$	$-45.22\ \varrho\cos\varphi'$	cos (	$45\ \ 25.2-\lambda$)
Austr., inn. ,,	1 52 7.5	$+31.34\ \varrho \sin\varphi'$	$+32.37\ \varrho\cos\varphi'$	cos (	$285\ \ 22.4-\lambda$)
,, äuß. ,,	1 53 55.9	$+31.16\ \varrho \sin\varphi'$	$+32.43\ \varrho\cos\varphi'$	cos (	$285\ \ 58.4-\lambda$)

Sternbedeckungen 1940

Ein- und Austritte für Berlin

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
Jan.	12	BD −9° 5854	6.8	E.	16 45.5	31	−0.4	+0.5	3.1
	16	BD +5° 131	6.3	E.	21 28.8	124	−0.3	−3.3	7.3
	20	δ Tauri	3.9	E.	21 53.6	102	−1.1	−1.5	11.3
	20	64 Tauri	4.8	E.	22 39.5	131	−0.7	−2.9	11.3
	22	BD +18° 1112	6.4	E.	17 18.4	99	−0.7	+1.1	13.2
	23	λ Geminorum	3.6	E.	20 36.5	119	−1.3	−0.3	14.3
	28	BD +0° 2782	6.3	A.	2 32.8	283	−1.4	−0.5	18.5
Febr.	1	ν Librae	5.3	A.	3 11.7	248	−1.5	+1.7	22.6
	16	BD +16° 527	6.9	E.	17 20.1	68	−1.5	+0.7	8.4
März	11	ζ¹ Piscium	5.6	E.	17 47.9	23	−0.5	+0.9	2.6
	11	BD +6° 175	6.5	E.	17 48.9	23	−0.5	+1.0	2.6
	12	BD +10° 275	6.8	E.	19 5.1	30	−0.5	+0.5	3.7
	16	115 Tauri	5.3	E.	18 5.5	116	−1.4	−1.6	7.7
	16	BD +18° 873	7.0	E.	20 49.7	28	—	—	7.7
	17	BD +17° 1224	6.8	E.	17 54.2	129	−1.4	−1.6	8.7
	19	BD +14° 1879	7.1	E.	19 48.7	91	−1.5	−0.1	10.7
	21	ω Leonis	5.5	E.	0 29.6	148	−0.3	−2.3	11.9
	26	λ Virginis	4.6	A.	0 8.9	256	−1.6	+0.8	16.9
April	14	51 Geminorum	5.3	E.	23 2.0	113	+0.2	−1.7	7.1
	17	κ Cancri	5.1	E.	0 14.0	84	−0.1	−1.4	9.1
Mai	12	BD +15° 1676	7.2	E.	20 35.8	124	−0.1	−2.0	5.2
	13	A² Cancri	5.7	E.	21 4.8	85	−0.5	−1.4	6.4
	19	λ Virginis	4.6	E.	20 4.7	144	−0.8	−0.5	12.4
	25	ρ Sagittarii	4.0	E.	1 43.2	90	−1.6	+0.3	17.6
Juni	13	BD −2° 3478	6.9	E.	21 2.5	141	−0.7	−2.0	7.8
Juli	15	BD −18° 4302	7.1	E.	21 5.3	81	−1.5	−0.3	10.4
	25	73 Piscium	6.2	A.	23 10.8	229	−0.3	+2.2	20.5
	30	63 Tauri	5.7	A.	1 9.4	273	−0.1	+1.4	24.6
Aug.	12	BD −19° 4605	6.5	E.	20 42.7	100	−1.4	−1.0	9.0
	27	BD +16° 672	5.7	A.	0 56.3	222	0.0	+2.6	23.2
Sept.	9	BD −19° 4800	7.3	E.	20 12.5	77	−1.1	−0.9	7.7
	11	BD −17° 5746	7.1	E.	18 39.6	137	—	—	9.6
	12	BD −14° 5839	7.0	E.	22 38.9	115	−1.6	−1.9	10.8
	13	BD −12° 6005	6.5	E.	18 52.9	88	−1.3	+1.1	11.7
	14	ϑ Aquarii	4.3	E.	20 13.9	1	—	—	12.7
	14	ρ Aquarii	5.4	E.	21 58.2	99	−1.9	−0.3	12.8
	22	α Tauri	1.1	E.	21 40.2	154	—	—	20.8
	22	α Tauri	1.1	A.	21 56.6	185	—	—	20.8
Okt.	11	BD −9° 5908	7.2	E.	19 58.5	41	−1.1	+1.0	10.3
	11	BD −8° 5817	7.0	E.	23 23.7	39	−0.5	+0.1	10.4
	12	BD −5° 5885	5.9	E.	22 50.1	113	−1.7	−2.3	11.4
	13	BD −5° 5894	6.4	E.	0 21.3	132	—	—	11.5
	17	38 Arietis	5.2	A.	23 20.3	246	−1.4	+1.2	16.4
	19	63 Tauri	5.7	A.	22 36.7	315	−1.7	−0.6	18.4
	22	BD +16° 1363	6.0	A.	23 20.1	253	−0.3	+1.9	21.5

Sternbedeckungen 1940

Ein- und Austritte für Berlin

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
Okt.	25	α Cancri	4.3	E.	1 56.6	116	—0.7	+0.7	23.6
	25	α Cancri	4.3	A.	3 2.8	270	—1.1	+1.2	23.6
Nov.	11	BD +1° 28	7.3	E.	0 55.4	90	—0.4	—1.7	11.1
	17	130 Tauri	5.5	A.	19 2.4	271	0.0	+1.5	17.9
	20	BD +13° 1940	6.4	A.	21 38.7	247	+0.1	+2.0	21.0
	24	79 Leonis	5.5	A.	2 19.0	290	—0.6	+0.9	24.2
Dez.	4	BD —12° 6005	6.5	E.	16 21.2	42	—1.1	+0.7	5.3
	4	BD —12° 5998	6.8	E.	15 52.2	52	—1.3	+0.6	5.3
	5	ρ Aquarii	5.4	E.	18 25.6	52	—1.0	0.0	6.4
	6	BD —5° 5917	6.6	E.	16 7.2	131	—	—	7.3
	8	BD +2° 80	6.6	E.	17 41.1	98	—1.8	+0.3	9.4
	9	BD +6° 228	6.7	E.	21 59.2	111	—1.4	—2.3	10.5
	16	26 Geminorum	5.1	A.	3 38.7	331	—0.2	—3.3	16.7
	20	43 Leonis	6.3	A.	5 33.2	330	—0.7	—2.2	20.8

Ein- und Austritte für Breslau

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
Jan.	12	BD —9° 5854	6.8	E.	16 47.0	38	—0.4	+0.1	3.1
	16	BD +5° 131	6.3	E.	21 33.9	130	—0.1	—3.6	7.3
	20	δ Tauri	3.9	E.	22 0.2	105	—1.0	—1.7	11.3
	20	64 Tauri	4.8	E.	22 45.9	134	—0.6	—3.0	11.3
	22	BD +18° 1112	6.4	E.	17 20.3	106	—0.9	+0.9	13.2
	23	λ Geminorum	3.6	E.	20 42.4	123	—1.4	—0.6	14.3
	28	BD +0° 2782	6.3	A.	2 39.1	284	—1.4	—0.8	18.5
Febr.	1	ν Librae	5.3	A.	3 15.8	250	—1.6	+1.5	22.6
	16	BD +16° 527	6.9	E.	17 25.3	74	—1.6	+0.4	8.4
März	11	ζ¹ Piscium	5.6	E.	17 48.9	28	—0.4	+0.6	2.6
	11	BD +6° 175	6.5	E.	17 49.6	28	—0.4	+0.7	2.6
	12	BD +10° 275	6.8	E.	19 6.1	34	—0.4	+0.3	3.7
	16	115 Tauri	5.3	E.	18 13.1	118	—1.3	—1.9	7.7
	16	BD +18° 873	7.0	E.	20 54.0	29	—	—	7.7
	17	BD +17° 1224	6.8	E.	18 2.1	132	—1.4	—2.0	8.7
	19	BD +14° 1879	7.1	E.	19 55.0	92	—1.5	—0.3	10.7
	21	ω Leonis	5.5	E.	0 33.5	147	—0.2	—2.3	11.9
	26	λ Virginis	4.6	A.	0 14.6	257	—1.7	+0.6	16.9
Mai	12	BD +15° 1676	7.2	E.	20 38.4	124	0.0	—1.9	5.2
	13	A^2 Cancri	5.7	E.	21 8.3	84	—0.4	—1.4	6.4
	19	λ Virginis	4.6	E.	20 8.6	142	—0.9	—0.6	12.4

Sternbedeckungen 1940

Ein- und Austritte für Breslau

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940		m		h m	°	m	m	d
Mai 25	ρ Sagittarii	4.0	E.	1 49.4	93	—1.6	0.0	17.6
Juni 13	*BD* —2° 3478	6.9	E.	21 7.7	141	—0.6	—2.1	7.8
24	ϑ Aquarii	4.3	A.	22 48.4	263	—0.7	+1.7	18.9
Juli 15	*BD* —18° 4302	7.1	E.	21 11.6	83	—1.4	—0.5	10.4
25	73 Piscium	6.2	A.	23 9.2	225	—0.3	+2.2	20.5
30	63 Tauri	5.7	A.	1 7.9	268	—0.1	+1.5	24.6
Aug. 9	*BD* —12° 4055	6.7	E.	19 25.4	125	—0.9	—1.8	6.0
12	*BD* —19° 4605	6.5	E.	20 49.5	103	—1.4	—1.2	9.0
27	*BD* +16° 672	5.7	A.	0 53.0	215	0.0	+2.9	23.2
Sept. 8	29 Ophiuchi	6.4	E.	18 21.1	84	—1.4	—0.7	6.7
9	*BD* —19° 4800	7.3	E.	20 18.0	81	—1.0	—1.0	7.7
10	*BD* —18° 5115	6.9	E.	18 6.2	117	—1.7	—0.3	8.6
11	*BD* —17° 5746	7.1	E.	18 49.4	144	—	—	9.6
12	*BD* —14° 5839	7.0	E.	22 49.2	125	—1.8	—2.8	10.8
13	*BD* —12° 6005	6.5	E.	18 57.3	91	—1.5	+1.0	11.7
14	ϑ Aquarii	4.3	E.	20 11.8	11	—0.7	+2.6	12.7
14	ρ Aquarii	5.4	E.	22 6.9	107	—2.1	—0.9	12.8
Okt. 11	*BD* —9° 5908	7.2	E.	20 2.2	48	—1.3	+0.7	10.3
11	*BD* —8° 5817	7.0	E.	23 25.6	46	—0.4	—0.2	10.4
12	*BD* —5° 5885	5.9	E.	23 0.9	124	—1.9	—3.4	11.4
17	38 Arietis	5.2	A.	23 24.6	239	—1.4	+1.3	16.4
19	63 Tauri	5.7	A.	22 43.9	305	—1.7	—0.2	18.4
22	*BD* +17° 1182	5.7	A.	2 17.5	334	—	—	20.6
22	*BD* +16° 1363	6.0	A.	23 18.8	247	—0.4	+2.1	21.5
25	α Cancri	4.3	E.	1 59.0	121	—0.8	+0.4	23.6
25	α Cancri	4.3	A.	3 5.7	266	—1.2	+1.2	23.6
Nov. 17	130 Tauri	5.5	A.	19 0.6	266	0.0	+1.5	17.9
20	*BD* +13° 1940	6.4	A.	21 35.4	241	+0.1	+2.3	21.0
24	79 Leonis	5.5	A.	2 20.6	288	—0.7	+0.8	24.2
Dez. 4	*BD* —12° 5998	6.8	E.	15 56.9	57	—1.3	+0.4	5.3
4	*BD* —12° 6005	6.5	E.	16 24.9	48	—1.2	+0.4	5.3
5	ρ Aquarii	5.4	E.	18 29.8	60	—1.0	—0.3	6.4
7	*BD* —0° 4585	6.0	E.	20 27.3	7	—0.2	+2.6	8.5
8	*BD* +2° 80	6.6	E.	17 49.2	106	—2.1	—0.3	9.4
9	*BD* +6° 228	6.7	E.	22 7.9	118	—1.3	—2.9	10.5
16	26 Geminorum	5.1	A.	3 43.5	331	—0.1	—3.3	16.7
18	*BD* +13° 1940	6.4	A.	4 46.2	212	—	—	18.8

Sternbedeckungen 1940

Ein- und Austritte für Frankfurt a. M.

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
Jan.	12	*BD* —9° 5854	6.8	E.	16 42.5	33	—0.6	+0.5	3.1
	16	*BD* +6° 135	6.9	E.	21 3.8	5	—	—	7.3
	16	*BD* +5° 131	6.3	E.	21 36.6	139	—	—	7.3
	20	δ Tauri	3.9	E.	21 52.0	111	—1.3	—1.8	11.3
	20	64 Tauri	4.8	E.	22 44.1	145	—0.7	—4.1	11.3
	20	68 Tauri	4.2	E.	23 38.7	16	—	—	11.4
	22	*BD* +18° 1112	6.4	E.	17 12.9	102	—0.6	+1.1	13.2
	23	λ Geminorum	3.6	E.	20 31.6	127	—1.3	—0.5	14.3
	28	*BD* +0° 2782	6.3	A.	2 27.1	274	—1.6	—0.2	18.5
Febr.	1	ν Librae	5.3	A.	2 59.7	235	—1.7	+2.6	22.6
	20	*BD* +16° 1363	6.0	E.	2 41.0	113	+0.2	—1.6	11.8
	25	*BD* —5° 3569	6.3	A.	22 31.5	0	—	—	17.7
März	12	*BD* +10° 275	6.8	E.	19 2.2	41	—0.5	+0.1	3.7
	16	115 Tauri	5.3	E.	18 2.9	124	—1.6	—1.9	7.7
	16	*BD* +18° 873	7.0	E.	20 41.7	45	—1.3	+0.4	7.7
	19	68 Geminorum	5.1	E.	0 58.1	29	—	—	9.9
	19	*BD* +14° 1879	7.1	E.	19 42.5	100	—1.5	—0.2	10.7
	21	ω Leonis	5.5	E.	0 34.0	157	—0.2	—2.5	11.9
	25	λ Virginis	4.6	A.	23 58.9	245	—1.8	+1.5	16.9
	29	*BD* —19° 4605	6.5	A.	3 35.0	297	—1.5	—0.1	20.0
April	14	51 Geminorum	5.3	E.	23 16.8	119	+0.2	—1.8	7.1
	17	κ Cancri	5.1	E.	0 16.7	89	—0.2	—1.4	9.1
	17	*BD* +8° 2289	6.7	E.	20 3.7	43	—	—	10.0
	27	*BD* —18° 5079	6.5	A.	2 36.6	272	—1.6	+0.6	19.3
Mai	12	*BD* +15° 1676	7.2	E.	20 40.2	132	—0.1	—2.2	5.2
	13	A^2 Cancri	5.7	E.	21 6.0	91	—0.5	—1.5	6.4
	19	λ Virginis	4.6	E.	20 2.9	155	—0.6	—0.9	12.4
	25	ρ Sagittarii	4.0	E.	1 35.3	92	—1.6	+0.5	17.6
Juni	13	*BD* —2° 3478	6.9	E.	21 4.2	147	—0.7	—2.1	7.8
Juli	15	*BD* —18° 4302	7.1	E.	20 59.0	85	—1.6	—0.2	10.4
	25	73 Piscium	6.2	A.	23 4.9	228	—0.1	+2.2	20.5
	28	38 Arietis	5.2	A.	2 13.8	182	—	—	22.7
	30	63 Tauri	5.7	A.	1 6.1	272	0.0	+1.4	24.6
Aug.	12	*BD* —19° 4605	6.5	E.	20 38.3	102	—1.6	—0.9	9.0
	27	*BD* +16° 672	5.7	A.	0 50.8	221	+0.1	+2.5	23.2
Sept.	9	*BD* —19° 4800	7.3	E.	20 9.1	77	—1.3	—0.7	7.7
	11	*BD* —17° 5746	7.1	E.	18 33.2	141	—	—	9.6
	12	*BD* —14° 5839	7.0	E.	22 35.5	115	—1.9	—1.9	10.8
	13	*BD* —12° 6005	6.5	E.	18 44.2	90	—1.3	+1.3	11.7
	14	ϑ Aquarii	4.3	E.	20 54.1	3	—	—	12.7
	14	ρ Aquarii	5.4	E.	21 0.2	99	—2.0	—0.1	12.8
	22	α Tauri	1.1	E.	21 38.9	158	—	—	20.8
	22	α Tauri	1.1	A.	21 50.7	181	—	—	20.8
Okt.	11	*BD* —9° 5908	7.2	E.	19 50.6	41	—1.2	+1.3	10.3
	11	*BD* —8° 5817	7.0	E.	23 21.3	41	—0.6	+0.1	10.4

Sternbedeckungen 1940

Ein- und Austritte für Frankfurt a. M.

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	
Okt.	12	BD −5° 5885	5.9	E.	22 46.7	115	−2.0	−2.3	11.4
	13	BD −5° 5894	6.4	E.	0 26.2	143	—	—	11.5
	17	38 Arietis	5.2	A.	23 11.0	244	−1.4	+1.5	16.4
	19	63 Tauri	5.7	A.	22 30.4	312	−1.6	−0.3	18.4
	22	BD +17° 1182	5.7	A.	2 5.5	331	—	—	20.6
	22	BD +16° 1363	6.0	A.	23 14.5	250	−0.2	+2.0	21.5
	25	α Cancri	4.3	E.	1 52.2	123	−0.7	+0.5	23.6
	25	α Cancri	4.3	A.	2 55.1	262	−1.0	+1.6	23.6
Nov.	10	BD −2° 5973	6.6	E.	0 0.1	28	−0.3	+0.6	10.0
	11	BD +1° 28	7.3	E.	0 57.6	97	−0.5	−1.9	11.1
	24	79 Leonis	5.5	A.	2 14.3	282	−0.5	+1.1	24.2
Dez.	4	BD −12° 6005	6.5	E.	16 14.2	42	−1.2	+0.9	5.3
	5	ρ Aquarii	5.4	E.	18 20.5	54	−1.2	+0.2	6.4
	7	BD −0° 4585	6.0	E.	20 23.2	359	—	—	8.5
	8	BD +2° 80	6.6	E.	17 31.9	98	−1.9	+0.5	9.4
	9	BD +6° 228	6.7	E.	21 58.2	118	−1.7	−2.7	10.5
	16	26 Geminorum	5.1	A.	3 44.0	319	−0.5	−2.8	16.7
	18	29 Cancri	5.9	A.	1 12.5	355	—	—	18.7
	20	43 Leonis	6.3	A.	5 34.6	320	−0.9	−2.0	20.8

Ein- und Austritte für Königsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
Jan.	12	BD −9° 5854	6.8	E.	16 48.7	30	−0.3	+0.2	3.1
	20	BD +16° 569	6.3	E.	16 5.4	75	−0.9	+1.6	11.1
	20	δ Tauri	3.9	E.	21 58.0	93	−0.9	−1.4	11.3
	20	64 Tauri	4.8	E.	22 38.5	119	−0.6	−2.3	11.3
	22	BD +18° 1112	6.4	E.	17 26.8	98	−0.8	+1.1	13.2
	22	BD +17° 1182	5.7	E.	19 31.7	156	—	—	13.4
	23	λ Geminorum	3.6	E.	20 45.5	112	−1.3	−0.2	14.3
	28	BD +0° 2782	6.3	A.	2 40.0	294	−1.1	−1.0	18.5
Febr.	1	ν Librae	5.3	A.	3 25.4	260	−1.4	+1.0	22.6
	16	BD +16° 527	6.9	E.	17 31.9	64	−1.4	+0.5	8.4
	19	26 Geminorum	5.1	E.	16 49.7	54	−0.9	+2.4	11.4
März	11	ζ^1 Piscium	5.6	E.	17 54.4	8	—	—	2.6
	11	BD +6° 175	6.5	E.	17 55.3	9	−0.4	+2.2	2.6
	16	115 Tauri	5.3	E.	18 11.6	106	−1.2	−1.4	7.7
	17	BD +17° 1224	6.8	E.	18 0.8	119	−1.3	−1.4	8.7
	18	λ Geminorum	3.6	E.	16 55.0	52	−1.4	+2.3	9.6
	19	BD +14° 1879	7.1	E.	19 59.2	79	−1.4	−0.1	10.7

Sternbedeckungen 1940

Ein- und Austritte für Königsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
März	21	ω Leonis	5.5	E.	0 26.4	138	—0.2	—2.1	11.9
	26	λ Virginis	4.6	A.	0 21.1	267	—1.4	+0.2	16.9
Mai	12	*BD* +15° 1676	7.2	E.	20 31.7	116	0.0	—1.8	5.2
	13	A^2 Cancri	5.7	E.	21 4.5	76	—0.3	—1.4	6.4
	17	*BD* —4° 3268	6.7	E.	19 41.6	170	—0.4	—2.1	10.3
	19	λ Virginis	4.6	E.	20 10.2	132	—1.0	—0.3	12.4
Juni	13	*BD* —2° 3478	6.9	E.	21 2.5	135	—0.6	—2.0	7.8
Juli	15	*BD* —18° 4302	7.1	E.	21 14.0	79	—1.2	—0.6	10.4
	24	*BD* +0° 28	6.4	A.	21 53.9	186	0.0	+3.1	19.4
	25	73 Piscium	6.2	A.	23 18.4	228	—0.4	+2.2	20.5
Aug.	27	*BD* +16° 672	5.7	A.	1 3.3	222	—0.2	+2.7	23.2
Sept.	8	29 Ophiuchi	6.4	E.	18 22.6	80	—1.1	—0.8	6.7
	10	*BD* —18° 5115	6.9	E.	18 10.7	114	—1.5	—0.3	8.6
	11	*BD* —17° 5746	7.1	E.	18 51.8	138	—	—	9.6
	12	*BD* —14° 5839	7.0	E.	22 45.4	118	—1.4	—2.3	10.8
	13	*BD* —12° 6005	6.5	E.	19 5.3	88	—1.4	+0.8	11.7
	14	ϑ Aquarii	4.3	E.	20 23.3	6	—	—	12.7
	14	ρ Aquarii	5.4	E.	22 10.2	103	—1.7	—0.8	12.8
	22	α Tauri	1.1	E.	4 46.7	158	—	—	20.8
Okt.	11	*BD* —9° 5908	7.2	E.	20 8.5	44	—1.0	+0.6	10.3
	12	*BD* —5° 5885	5.9	E.	22 56.1	113	—1.4	—2.4	11.4
	13	*BD* —5° 5894	6.4	E.	0 20.9	127	—0.9	—3.7	11.5
	17	38 Arietis	5.2	A.	23 32.9	246	—1.4	+0.8	16.4
	19	63 Tauri	5.7	A.	22 48.2	315	—1.8	—0.8	18.4
	22	*BD* +16° 1363	6.0	A.	23 27.6	255	—0.5	+1.9	21.5
	25	α Cancri	4.3	E.	2 4.0	110	—0.8	+0.8	23.6
	25	α Cancri	4.3	A.	3 13.2	278	—1.1	+0.7	23.6
ov.	17	130 Tauri	5.5	A.	19 6.5	270	—0.1	+1.6	17.9
	20	*BD* +13° 1940	6.4	A.	21 43.3	250	—0.1	+2.1	21.0
	21	A^1 Cancri	5.7	A.	2 44.0	228	—1.9	+2.7	21.2
	21	6 Leonis	5.3	A.	23 53.0	221	—0.5	+4.3	22.1
	24	79 Leonis	5.5	A.	2 25.3	300	—0.7	+0.5	24.2
Dez.	4	*BD* —12° 5994	6.6	E.	15 15.6	131	—	—	5.3
	4	*BD* —12° 5998	6.8	E.	16 2.1	54	—1.1	+0.2	5.3
	4	*BD* —12° 6005	6.5	E.	16 29.8	45	—0.9	+0.3	5.3
	5	ρ Aquarii	5.4	E.	18 31.9	54	—0.8	—0.3	6.4
	6	*BD* —5° 5917	6.6	E.	16 25.2	140	—	—	7.3
	8	*BD* +2° 80	6.6	E.	17 54.8	101	—1.8	—0.3	9.4
	9	*BD* +6° 228	6.7	E.	22 2.9	105	—1.0	—2.1	10.5
	16	26 Geminorum	5.1	A.	3 27.5	355	—	—	16.7
	18	*BD* +13° 1940	6.4	A.	4 54.0	234	—1.2	—0.4	18.8

Sternbedeckungen 1940

Ein- und Austritte für München

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940		m		h m	°	m	m	d
Jan. 12	BD −9° 5854	6.8	E.	16 43.6	42	−0.6	+0.2	3.1
16	BD +6° 135	6.9	E.	21 0.8	18	−0.5	+1.7	7.3
20	δ Tauri	3.9	E.	21 59.4	117	−1.2	−2.1	11.3
20	64 Tauri	4.8	E.	22 54.4	154	—	—	11.3
20	68 Tauri	4.2	E.	23 38.2	25	—	—	11.4
22	BD +18° 1112	6.4	E.	17 13.1	110	−0.8	+0.8	13.2
23	λ Geminorum	3.6	E.	20 37.2	135	−1.4	−1.0	14.3
28	BD +0° 2782	6.3	A.	2 32.2	272	−1.7	−0.3	18.5
Febr. 1	ν Librae	5.3	A.	3 0.1	232	−2.0	+2.7	22.6
16	BD +16° 527	6.9	E.	17 14.9	80	−1.8	+0.4	8.4
25	BD −5° 3569	6.3	A.	22 36.4	353	0.0	−2.2	17.7
März 11	ζ^1 Piscium	5.6	E.	17 44.9	41	−0.5	+0.2	2.6
11	BD +6° 175	6.5	E.	17 45.8	41	−0.5	+0.2	2.6
12	BD +10° 275	6.8	E.	19 3.6	47	−0.4	−0.1	3.7
16	115 Tauri	5.3	E.	18 11.9	132	−1.5	−2.5	7.7
16	BD +18° 873	7.0	E.	20 45.3	49	−1.3	+0.1	7.7
17	BD +17° 1224	6.8	E.	18 1.4	147	−1.5	−3.1	8.7
19	68 Geminorum	5.1	E.	0 59.3	33	—	—	9.9
19	BD +14° 1879	7.1	E.	19 47.8	104	−1.6	−0.5	10.7
21	ω Leonis	5.5	E.	0 39.7	158	−0.1	−2.6	11.9
26	λ Virginis	4.6	A.	0 1.6	243	−2.0	+1.5	16.9
29	BD −19° 4605	6.5	A.	3 40.1	294	−1.7	−0.2	20.0
April 17	ϰ Cancri	5.1	E.	0 19.7	91	−0.1	−1.4	9.1
17	BD +8° 2289	6.7	E.	20 16.9	47	—	—	10.0
27	BD −18° 5079	6.5	A.	2 40.5	269	−1.7	+0.5	19.3
Mai 12	BD +15° 1676	7.2	E.	20 44.6	133	0.0	−2.1	5.2
13	A^2 Cancri	5.7	E.	21 10.3	93	−0.5	−1.5	6.4
19	λ Virginis	4.6	E.	20 6.6	157	−0.6	−1.1	12.4
25	ρ Sagittarii	4.0	E.	1 39.5	95	−1.8	+0.3	17.6
Juni 13	BD −2° 3478	6.9	E.	21 10.5	148	−0.7	−2.2	7.8
Juli 15	BD −18° 4302	7.1	E.	21 4.4	87	−1.7	−0.4	10.4
25	73 Piscium	6.2	A.	23 1.1	224	−0.2	+2.3	20.5
30	63 Tauri	5.7	A.	1 3.2	266	0.0	+1.5	24.6
Aug. 9	BD −12° 4055	6.7	E.	19 25.4	130	−1.1	−1.8	6.0
12	BD −19° 4605	6.5	E.	20 44.8	105	−1.6	−1.0	9.0
27	BD +16° 672	5.7	A.	0 45.1	212	+0.2	+2.9	23.2
Sept. 8	29 Ophiuchi	6.4	E.	18 14.8	87	−1.6	−0.5	6.7
9	BD −19° 4800	7.3	E.	20 14.3	82	−1.3	−0.9	7.7
11	BD −17° 5746	7.1	E.	18 41.7	149	—	—	9.6
12	BD −14° 5839	7.0	E.	22 46.2	127	−2.3	−2.9	10.8
13	BD −12° 6005	6.5	E.	18 46.0	93	−1.5	+1.1	11.7
14	ϑ Aquarii	4.3	E.	19 59.6	12	−0.8	+3.0	12.7
14	ρ Aquarii	5.4	E.	21 57.2	107	−2.3	−0.6	12.8
Okt. 11	BD −9° 5908	7.2	E.	19 52.3	48	−1.4	+1.1	10.3
11	BD −8° 5817	7.0	E.	23 23.3	50	−0.7	−0.2	10.4

Sternbedeckungen 1940

Ein- und Austritte für München

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1940			m		h m	°	m	m	d
Okt.	12	BD —5° 5885	5.9	E.	22 59.3	129	—	—	11.4
	17	38 Arietis	5.2	A.	23 12.2	236	—1.4	+1.6	16.4
	19	63 Tauri	5.7	A.	22 35.1	301	—1.5	+0.2	18.4
	22	BD +17° 1182	5.7	A.	2 15.9	319	—1.8	—2.0	20.6
	22	BD +16° 1363	6.0	A.	23 11.0	243	—0.2	+2.2	21.5
	25	α Cancri	4.3	E.	1 53.8	130	—0.8	+0.1	23.6
	25	α Cancri	4.3	A.	2 54.6	256	—1.1	+1.8	23.6
Nov.	10	BD —2° 5973	6.6	E.	0 0.3	38	—0.3	+0.2	10.0
	11	BD +1° 28	7.3	E.	1 3.0	105	—0.5	—2.2	11.1
	17	130 Tauri	5.5	A.	18 56.4	264	+0.1	+1.5	17.9
	24	79 Leonis	5.5	A.	2 13.7	276	—0.6	+1.2	24.2
Dez.	4	BD —12° 6005	6.5	E.	16 16.4	48	—1.4	+0.7	5.3
	5	ρ Aquarii	5.4	E.	18 24.1	61	—1.3	—0.1	6.4
	7	BD —0° 4585	6.0	E.	20 17.9	15	—0.5	+2.1	8.5
	8	BD +2° 80	6.6	E.	17 37.8	107	—2.3	—0.1	9.4
	9	BD +6° 228	6.7	E.	22 10.1	130	—	—	10.5
	16	26 Geminorum	5.1	A.	3 50.6	315	—0.4	—2.6	16.7
	18	29 Cancri	5.9	A.	1 24.3	344	—	—	18.7
	20	43 Leonis	6.3	A.	5 41.3	319	—0.9	—2.1	20.8

0h Welt-Zeit	Mondbewegung ☊	$L_☾$	$\tilde{\omega}_☾$	$M_☾$	Lage des Mondäquators gegen den Erdäquator i		Δ		☊′		Δ−☋	
1940	°	°	°	°	°		°		°		°	
Jan. −4	205.8180	105.1230	161.33	303.79	24.838	6	24.364	501	1.596	31	358.544	28
+6	205.2885	236.8869	162.44	74.44	24.844	6	23.863	501	1.565	31	358.572	28
16	204.7590	8.6509	163.56	205.09	24.850	6	23.362	501	1.534	31	358.600	29
26	204.2294	140.4149	164.67	335.74	24.856	5	22.861	501	1.503	31	358.629	28
Febr. 5	203.6999	272.1788	165.78	106.39	24.861	6	22.360	501	1.472	32	358.657	29
15	203.1703	43.9428	166.90	237.04	24.867	5	21.859	501	1.440	31	358.686	29
25	202.6408	175.7068	168.01	7.69	24.872	5	21.358	501	1.409	32	358.715	29
März 6	202.1113	307.4707	169.13	138.34	24.877	5	20.857	501	1.377	31	358.744	29
16	201.5817	79.2347	170.24	268.99	24.882	5	20.356	501	1.346	32	358.773	29
26	201.0522	210.9987	171.36	39.64	24.887	4	19.855	500	1.314	32	358.802	29
April 5	200.5227	342.7626	172.47	170.29	24.891	5	19.355	501	1.282	32	358.831	29
15	199.9931	114.5266	173.58	300.94	24.896	4	18.854	500	1.250	32	358.860	29
25	199.4636	246.2906	174.70	71.59	24.900	5	18.354	501	1.218	32	358.889	29
Mai 5	198.9340	18.0545	175.81	202.24	24.905	4	17.853	500	1.186	32	358.918	30
15	198.4045	149.8185	176.93	332.89	24.909	4	17.353	500	1.154	33	358.948	29
25	197.8750	281.5825	178.04	103.54	24.913	4	16.853	500	1.121	32	358.977	30
Juni 4	197.3454	53.3464	179.15	234.19	24.917	4	16.353	500	1.089	33	359.007	29
14	196.8159	185.1104	180.27	4.84	24.921	4	15.853	500	1.056	32	359.036	30
24	196.2863	316.8744	181.38	135.49	24.925	4	15.353	500	1.024	33	359.066	29
Juli 4	195.7568	88.6383	182.50	266.14	24.929	3	14.853	499	0.991	32	359.095	30
14	195.2273	220.4023	183.61	36.79	24.932	4	14.354	500	0.959	33	359.125	30
24	194.6977	352.1663	184.72	167.44	24.936	3	13.854	500	0.926	33	359.155	30
Aug. 3	194.1682	123.9302	185.84	298.09	24.939	4	13.354	499	0.893	32	359.185	30
13	193.6386	255.6942	186.95	68.74	24.943	3	12.855	500	0.861	33	359.215	30
23	193.1091	27.4582	188.07	199.39	24.946	3	12.355	499	0.828	33	359.245	30
Sept. 2	192.5796	159.2221	189.18	330.04	24.949	3	11.856	500	0.795	33	359.275	30
12	192.0500	290.9861	190.29	100.69	24.952	3	11.356	499	0.762	33	359.305	30
22	191.5205	62.7501	191.41	231.34	24.955	2	10.857	500	0.729	33	359.335	31
Okt. 2	190.9909	194.5140	192.52	1.99	24.957	3	10.357	499	0.696	33	359.366	30
12	190.4614	326.2780	193.64	132.64	24.960	2	9.858	500	0.663	34	359.396	31
22	189.9319	98.0420	194.75	263.29	24.962	2	9.358	499	0.629	33	359.427	30
Nov. 1	189.4023	229.8059	195.86	33.94	24.964	2	8.859	499	0.596	33	359.457	30
11	188.8728	1.5699	196.98	164.59	24.966	2	8.360	499	0.563	34	359.487	31
21	188.3433	133.3339	198.09	295.24	24.968	2	7.861	499	0.529	33	359.518	30
Dez. 1	187.8137	265.0978	199.21	65.89	24.970	1	7.362	499	0.496	34	359.548	31
11	187.2842	36.8618	200.32	196.54	24.971	2	6.863	499	0.462	33	359.579	30
21	186.7547	168.6258	201.43	327.19	24.973	2	6.364	499	0.429	34	359.609	31
31	186.2251	300.3898	202.55	97.84	24.975	1	5.865	499	0.395	33	359.640	30
41	185.6956	72.1537	203.66	228.49	24.976		5.366		0.362		359.670	

Mondkrater Mösting A. 1940

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1940										
Jan.	1	− 5.00ˢ	−1.56ˢ	−0.16ˢ	+159.2″	−16.9″	−5.9″	8.23974	−295	− 67
	2	− 6.56	−1.61	−0.05	+142.3	−22.6	−5.7	8.23679	−334	− 39
	3	− 8.17		+0.11	+119.7		−5.3	8.23345		− 24
Jan.	18	− 1.03ˢ	+0.62ˢ		+ 57.4″	+27.1″		8.20673	+517	
	19	− 0.41	+0.60	−0.02ˢ	+ 84.5	+24.5	−2.6″	8.21190	+617	+100
	20	+ 0.19	+0.55	−0.05	+109.0	+20.8	−3.7	8.21807	+680	+ 63
	21	+ 0.74	+0.40	−0.15	+129.8	+16.4	−4.4	8.22487	+698	+ 18
	22	+ 1.14	+0.12	−0.28	+146.2	+11.9	−4.5	8.23185	+655	− 43
	23	+ 1.26	−0.31	−0.43	+158.1	+ 7.9	−4.0	8.23840	+551	−104
	24	+ 0.95	−0.80	−0.49	+166.0	+ 4.5	−3.4	8.24391	+395	−156
	25	+ 0.15	−1.28	−0.48	+170.5	+ 1.4	−3.1	8.24786	+201	−194
	26	− 1.13	−1.69	−0.41	+171.9	− 2.3	−3.7	8.24987	− 6	−207
	27	− 2.82	−1.96	−0.27	+169.6	− 7.2	−4.9	8.24981	−200	−194
	28	− 4.78	−2.08	−0.12	+162.4	−13.4	−6.2	8.24781	−358	−158
	29	− 6.86	−2.04	+0.04	+149.0	−20.4	−7.0	8.24423	−468	−110
	30	− 8.90	−1.82	+0.22	+128.6	−27.0	−6.6	8.23955	−530	− 62
	31	−10.72	−1.41	+0.41	+101.6	−32.2	−5.2	8.23425	−548	− 18
Febr.	1	−12.13	−0.83	+0.58	+ 69.4	−35.2	−3.0	8.22877	−531	+ 17
	2	−12.96		+0.66	+ 34.2		+0.3	8.22346		+ 36
Febr.	16	+ 0.15ˢ	+0.98ˢ		+105.6″	+22.0″		8.21066	+595	
	17	+ 1.13	+0.95	−0.03ˢ	+127.6	+16.9	−5.1″	8.21661	+679	+ 84
	18	+ 2.08	+0.73	−0.22	+144.5	+11.2	−5.7	8.22340	+727	+ 48
	19	+ 2.81	+0.30	−0.43	+155.7	+ 5.9	−5.3	8.23067	+724	− 3
	20	+ 3.11	−0.32	−0.62	+161.6	+ 1.9	−4.0	8.23791	+657	− 67
	21	+ 2.79	−1.05	−0.73	+163.5	− 0.6	−2.5	8.24448	+522	−135
	22	+ 1.74	−1.73	−0.68	+162.9	− 2.5	−1.9	8.24970	+331	−191
	23	+ 0.01	−2.29	−0.56	+160.4	− 4.9	−2.4	8.25301	+100	−231
	24	− 2.28	−2.63	−0.34	+155.5	− 9.1	−4.2	8.25401	−142	−242
	25	− 4.91	−2.72	−0.09	+146.4	−15.5	−6.4	8.25259	−357	−215
	26	− 7.63	−2.56	+0.16	+130.9	−23.0	−7.5	8.24902	−527	−170
	27	−10.19	−2.12	+0.44	+107.9	−30.0	−7.0	8.24375	−634	−107
	28	−12.31	−1.44	+0.68	+ 77.9	−34.9	−4.9	8.23741	−680	− 46
	29	−13.75	−0.60	+0.84	+ 43.0	−36.4	−1.5	8.23061	−671	+ 9
März	1	−14.35	+0.23	+0.83	+ 6.6	−34.0	+2.4	8.22390	−622	+ 49
	2	−14.12		+0.72	− 27.4		+6.0	8.21768		+ 74

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾}-\alpha_k$			$\delta_{☾}-\delta_k$			log sin p_k		
1940										
März	17	+ 2ˢ.66	+0ˢ.96		+153″.4	+ 6″.3		8.22169	+663	
	18	+ 3.62	+0.47	−0ˢ.49	+159.7	+ 0.6	−5″.7	8.22832	+687	+ 24
	19	+ 4.09	−0.23	−0.70	+160.3	− 3.3	−3.9	8.23519	+659	− 28
	20	+ 3.86	−1.05	−0.82	+157.0	− 5.6	−2.3	8.24178	+570	− 89
	21	+ 2.81	−1.82	−0.77	+151.4	− 6.7	−1.1	8.24748	+421	−149
	22	+ 0.99	−2.48	−0.66	+144.7	− 8.2	−1.5	8.25169	+217	−204
	23	− 1.49	−2.92	−0.44	+136.5	−11.7	−3.5	8.25386	− 20	−237
	24	− 4.41	−3.06	−0.14	+124.8	−17.5	−5.8	8.25366	−257	−237
	25	− 7.47	−2.86	+0.20	+107.3	−24.7	−7.2	8.25109	−464	−207
	26	−10.33	−2.31	+0.55	+ 82.6	−31.5	−6.8	8.24645	−618	−154
	27	−12.64	−1.47	+0.84	+ 51.1	−35.5	−4.0	8.24027	−706	− 88
	28	−14.11	−0.48	+0.99	+ 15.6	−35.4	+0.1	8.23321	−729	− 23
	29	−14.59	+0.43	+0.91	− 19.8	−31.0	+4.4	8.22592	−698	+ 31
	30	−14.16	+1.13	+0.70	− 50.8	−23.3	+7.7	8.21894	−624	+ 74
	31	−13.03	+1.52	+0.39	− 74.1	−13.7	+9.6	8.21270	−525	+ 99
April	1	−11.51		+0.11	− 87.8		+9.9	8.20745		+114
April	15	+ 3ˢ.42	+0ˢ.44		+160″.1	− 3″.5		8.22717	+562	
	16	+ 3.86	−0.24	−0ˢ.68	+156.6	− 7.3	−3″.8	8.23279	+554	− 8
	17	+ 3.62	−0.99	−0.75	+149.3	− 9.3	−2.0	8.23833	+501	− 53
	18	+ 2.63	−1.71	−0.72	+140.0	−10.5	−1.2	8.24334	+401	−100
	19	+ 0.92	−2.34	−0.63	+129.5	−12.0	−1.5	8.24735	+252	−149
	20	− 1.42	−2.78	−0.44	+117.5	−15.0	−3.0	8.24987	+ 62	−190
	21	− 4.20	−2.94	−0.16	+102.5	−20.0	−5.0	8.25049	−146	−208
	22	− 7.14	−2.76	+0.18	+ 82.5	−26.1	−6.1	8.24903	−347	−201
	23	− 9.90	−2.20	+0.56	+ 56.4	−31.5	−5.4	8.24556	−516	−169
	24	−12.10	−1.33	+0.87	+ 24.9	−34.0	−2.5	8.24040	−634	−118
	25	−13.43	−0.36	+0.97	− 9.1	−32.3	+1.7	8.23406	−691	− 57
	26	−13.79	+0.52	+0.88	− 41.4	−26.3	+6.0	8.22715	−690	+ 1
	27	−13.27	+1.11	+0.59	− 67.7	−17.5	+8.8	8.22025	−639	+ 51
	28	−12.16	+1.42	+0.31	− 85.2	− 7.6	+9.9	8.21386	−548	+ 91
	29	−10.74	+1.46	+0.04	− 92.8	+ 2.2	+9.8	8.20838	−430	+118
	30	− 9.28		−0.12	− 90.6		+8.6	8.20408		+123
Mai	15	+ 2ˢ.19	−1ˢ.05		+142″.9	−12″.1		8.23643	+339	
	16	+ 1.14	−1.62	−0ˢ.57	+130.8	−13.7	−1″.6	8.23982	+272	− 67
	17	− 0.48	−2.09	−0.47	+117.1	−15.7	−2.0	8.24254	+173	− 99
	18	− 2.57	−2.41	−0.32	+101.4	−18.8	−3.1	8.24427	+ 44	−129
	19	− 4.98	−2.49	−0.08	+ 82.6	−23.1	−4.3	8.24471	−105	−149
	20	− 7.47	−2.26	+0.23	+ 59.5	−27.6	−4.5	8.24366	−261	−156
	21	− 9.73	−1.72	+0.54	+ 31.9	−30.7	−3.1	8.24105	−404	−143
	22	−11.45	−0.94	+0.78	+ 1.2	−31.0	−0.3	8.23701	−519	−115
	23	−12.39		+0.84	− 29.8		+3.7	8.23182		− 70

Tag		$\alpha_{☾}-\alpha_k$ (s)			$\delta_{☾}-\delta_k$ (″)			log sin p_k		
1940		0h Welt-Zeit								
Mai	23	−12.39		+0.84	− 29.8		+3.7	8.23182		− 70
	24	−12.49	−0.10	+0.69	− 57.1	−27.3	+7.1	8.22593	−589	− 22
	25	−11.90	+0.59	+0.45	− 77.3	−20.2	+9.1	8.21982	−611	+ 26
	26	−10.86	+1.04	+0.18	− 88.4	−11.1	+9.8	8.21397	−585	+ 67
	27	− 9.64	+1.22	0.00	− 89.7	− 1.3	+9.0	8.20879	−518	+101
	28	− 8.42	+1.22	−0.11	− 82.0	+ 7.7	+7.7	8.20462	−417	+122
	29	− 7.31	+1.11	−0.16	− 66.6	+15.4	+6.1	8.20167	−295	+133
	30	− 6.36	+0.95	−0.16	− 45.1	+21.5	+4.3	8.20005	−162	+137
Juni	13	− 1.26			+123.7			8.23856		
	14	− 2.91	−1.65	−0.26	+107.1	−16.6	−2.9	8.23930	+ 74	− 66
	15	− 4.82	−1.91	−0.10	+ 87.6	−19.5	−3.4	8.23938	+ 8	− 78
	16	− 6.83	−2.01	+0.11	+ 64.7	−22.9	−3.5	8.23868	− 70	− 88
	17	− 8.73	−1.90	+0.35	+ 38.3	−26.4	−2.6	8.23710	−158	− 95
	18	−10.28	−1.55	+0.55	+ 9.3	−29.0	−0.4	8.23457	−253	− 92
	19	−11.28	−1.00	+0.67	− 20.1	−29.4	+2.5	8.23112	−345	− 78
	20	−11.61	−0.33	+0.62	− 47.0	−26.9	+5.6	8.22689	−423	− 55
	21	−11.32	+0.29	+0.45	− 68.3	−21.3	+8.0	8.22211	−478	− 23
	22	−10.58	+0.74	+0.25	− 81.6	−13.3	+9.2	8.21710	−501	+ 11
	23	− 9.59	+0.99	+0.06	− 85.7	− 4.1	+9.0	8.21220	−490	+ 48
	24	− 8.54	+1.05	−0.05	− 80.8	+ 4.9	+8.0	8.20778	−442	+ 80
	25	− 7.54	+1.00	−0.10	− 67.9	+12.9	+6.7	8.20416	−362	+105
	26	− 6.64	+0.90	−0.10	− 48.3	+19.6	+4.9	8.20159	−257	+126
	27	− 5.84	+0.80	−0.08	− 23.8	+24.5	+3.4	8.20028	−131	+136
	28	− 5.12	+0.72	−0.03	+ 4.1	+27.9	+1.7	8.20033	+ 5	+137
	29	− 4.43	+0.69	+0.02	+ 33.7	+29.6	0.0	8.20175	+142	+128
Juli	12	− 5.82			+ 96.7			8.23865		
	13	− 7.67	−1.85	+0.18	+ 73.3	−23.4	−3.6	8.23668	−197	− 48
	14	− 9.34	−1.67	+0.35	+ 46.3	−27.0	−2.3	8.23423	−245	− 40
	15	−10.66	−1.32	+0.51	+ 17.0	−29.3	−0.4	8.23138	−285	− 37
	16	−11.47	−0.81	+0.58	− 12.7	−29.7	+2.4	8.22816	−322	− 33
	17	−11.70	−0.23	+0.55	− 40.0	−27.3	+5.2	8.22461	−355	− 28
	18	−11.38	+0.32	+0.40	− 62.1	−22.1	+7.4	8.22078	−383	− 18
	19	−10.66	+0.72	+0.23	− 76.8	−14.7	+8.6	8.21677	−401	− 4
	20	− 9.71	+0.95	+0.04	− 82.9	− 6.1	+8.9	8.21272	−405	+ 17
	21	− 8.72	+0.99	−0.04	− 80.1	+ 2.8	+8.1	8.20884	−388	+ 39
	22	− 7.77	+0.95	−0.09	− 69.2	+10.9	+6.9	8.20535	−349	+ 64
	23	− 6.91	+0.86	−0.09	− 51.4	+17.8	+5.5	8.20250	−285	+ 88
	24	− 6.14	+0.77	−0.05	− 28.1	+23.3	+3.9	8.20053	−197	+108
	25	− 5.42	+0.72	+0.01	− 0.9	+27.2	+2.2	8.19964	− 89	+124
	26	− 4.69	+0.73	+0.07	+ 28.5	+29.4	+0.6	8.19999	+ 35	+133
	27	− 3.89	+0.80	+0.12	+ 58.5	+30.0	−1.2	8.20167	+168	+134
	28	− 2.97	+0.92	+0.13	+ 87.3	+28.8	−3.0	8.20469	+302	+124
	29	− 1.92	+1.05	+0.08	+113.1	+25.8	−4.5	8.20895	+426	+104

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾}-\alpha_k$			$\delta_{☾}-\delta_k$			log sin p_k		
1940										
Aug.	10	−10ˢ.46			+ 55″.7			8.23666		
	11	−11.89	−1ˢ.43	+0ˢ.61	+ 25.4	−30″.3	−1″.0	8.23233	−433	− 13
	12	−12.71	−0.82	+0.66	− 5.9	−31.3	+2.1	8.22787	−446	+ 6
	13	−12.87	−0.16	+0.60	− 35.1	−29.2	+5.2	8.22347	−440	+ 17
	14	−12.43	+0.44	+0.42	− 59.1	−24.0	+7.3	8.21924	−423	+ 22
	15	−11.57	+0.86	+0.22	− 75.8	−16.7	+8.7	8.21523	−401	+ 26
	16	−10.49	+1.08	+0.03	− 83.8	− 8.0	+9.0	8.21148	−375	+ 31
	17	− 9.38	+1.11	−0.08	− 82.8	+ 1.0	+8.3	8.20804	−344	+ 37
	18	− 8.35	+1.03	−0.14	− 73.5	+ 9.3	+7.1	8.20497	−307	+ 44
	19	− 7.46	+0.89	−0.12	− 57.1	+16.4	+5.8	8.20234	−263	+ 58
	20	− 6.69	+0.77	−0.06	− 34.9	+22.2	+4.3	8.20029	−205	+ 74
	21	− 5.98	+0.71	+0.01	− 8.4	+26.5	+2.8	8.19898	−131	+ 91
	22	− 5.26	+0.72	+0.09	+ 20.9	+29.3	+1.1	8.19858	− 40	+105
	23	− 4.45	+0.81	+0.16	+ 51.3	+30.4	−0.7	8.19923	+ 65	+117
	24	− 3.48	+0.97	+0.20	+ 81.0	+29.7	−2.5	8.20105	+182	+124
	25	− 2.31	+1.17	+0.19	+108.2	+27.2	−4.3	8.20411	+306	+125
	26	− 0.95	+1.36	+0.09	+131.1	+22.9	−5.9	8.20842	+431	+114
	27	+ 0.50	+1.45	−0.09	+148.1	+17.0	−6.9	8.21387	+545	+ 92
Sept.	9	−14ˢ.28			− 29″.5			8.22706		
	10	−13.97	+0ˢ.31	+0ˢ.56	− 56.6	−27″.1	+7″.4	8.22134	−572	+ 49
	11	−13.10	+0.87	+0.32	− 76.3	−19.7	+8.9	8.21611	−523	+ 62
	12	−11.91	+1.19	+0.09	− 87.1	−10.8	+9.4	8.21150	−461	+ 69
	13	−10.63	+1.28	−0.09	− 88.5	− 1.4	+8.8	8.20758	−392	+ 68
	14	− 9.44	+1.19	−0.16	− 81.1	+ 7.4	+7.5	8.20434	−324	+ 65
	15	− 8.41	+1.03	−0.17	− 66.2	+14.9	+6.2	8.20175	−259	+ 64
	16	− 7.55	+0.86	−0.13	− 45.1	+21.1	+4.8	8.19980	−195	+ 65
	17	− 6.82	+0.73	−0.04	− 19.2	+25.9	+3.1	8.19850	−130	+ 67
	18	− 6.13	+0.69	+0.07	+ 9.8	+29.0	+1.6	8.19787	− 63	+ 75
	19	− 5.37	+0.76	+0.15	+ 40.4	+30.6	0.0	8.19799	+ 12	+ 84
	20	− 4.46	+0.91	+0.24	+ 71.0	+30.6	−2.0	8.19895	+ 96	+ 95
	21	− 3.31	+1.15	+0.26	+ 99.6	+28.6	−3.8	8.20086	+191	+103
	22	− 1.90	+1.41	+0.21	+124.4	+24.8	−5.6	8.20380	+294	+108
	23	− 0.28	+1.62	+0.07	+143.6	+19.2	−7.0	8.20782	+402	+106
	24	+ 1.41	+1.69	−0.16	+155.8	+12.2	−7.7	8.21290	+508	+ 97
	25	+ 2.94	+1.53	−0.43	+160.3	+ 4.5	−7.1	8.21895	+605	+ 73
	26	+ 4.04	+1.10	−0.67	+157.7	− 2.6	−5.5	8.22573	+678	+ 35
Okt.	8	−14ˢ.37			− 74″.3			8.22166		
	9	−13.33	+1ˢ.04	+0ˢ.23	− 88.8	−14″.5	+9″.7	8.21547	−619	+ 84
	10	−12.06	+1.27	+0.01	− 93.6	− 4.8	+9.5	8.21012	−535	+ 98
	11	−10.78	+1.28	−0.12	− 88.9	+ 4.7	+8.2	8.20575	−437	+101
	12	− 9.62	+1.16	−0.19	− 76.0	+12.9	+6.8	8.20239	−336	+ 97
	13	− 8.65	+0.97	−0.16	− 56.3	+19.7	+5.1	8.20000	−239	+ 89
	14	− 7.84	+0.81	−0.10	− 31.5	+24.8	+3.7	8.19850	−150	+ 82
	15	− 7.13	+0.71	0.00	− 3.0	+28.5	+2.0	8.19782	− 68	+ 74
	16	− 6.42	+0.71	+0.11	+ 27.5	+30.5	+0.5	8.19788	+ 6	+ 69

Mondkrater Mösting A. 1940

Tag		0^h Welt-Zeit								
		$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1940										
Okt.	16	−6.42 s	+0.82 s	+0.11 s	+27.5"	+31.0"	+0.5"	8.19788	+75	+69
	17	−5.60	+1.02	+0.20	+58.5	+29.8	−1.2	8.19863	+142	+67
	18	−4.58	+1.28	+0.26	+88.3	+26.5	−3.3	8.20005	+210	+68
	19	−3.30	+1.55	+0.27	+114.8	+21.5	−5.0	8.20215	+284	+74
	20	−1.75	+1.73	+0.18	+136.3	+14.8	−6.7	8.20499	+362	+78
	21	−0.02	+1.74	+0.01	+151.1	+7.0	−7.8	8.20861	+441	+79
	22	+1.72	+1.51	−0.23	+158.1	−0.7	−7.7	8.21302	+519	+78
	23	+3.23	+1.02	−0.49	+157.4	−7.4	−6.7	8.21821	+586	+67
	24	+4.25	+0.34	−0.68	+150.0	−12.2	−4.8	8.22407	+631	+45
	25	+4.59		−0.79	+137.8		−2.5	8.23038		+10
Nov.	7	−11.79 s	+1.12 s		−92.7"	+10.0"		8.21060	−483	
	8	−10.67	+1.01	−0.11 s	−82.7	+17.5	+7.5"	8.20577	−362	+121
	9	−9.66	+0.87	−0.14	−65.2	+23.4	+5.9	8.20215	−239	+123
	10	−8.79	+0.76	−0.11	−41.8	+27.6	+4.2	8.19976	−122	+117
	11	−8.03	+0.71	−0.05	−14.2	+30.1	+2.5	8.19854	−17	+105
	12	−7.32	+0.76	+0.05	+15.9	+31.0	+0.9	8.19837	+74	+91
	13	−6.56	+0.90	+0.14	+46.9	+30.3	−0.7	8.19911	+149	+75
	14	−5.66	+1.11	+0.21	+77.2	+27.7	−2.6	8.20060	+211	+62
	15	−4.55	+1.36	+0.25	+104.9	+23.3	−4.4	8.20271	+262	+51
	16	−3.19	+1.56	+0.20	+128.2	+17.2	−6.1	8.20533	+305	+43
	17	−1.63	+1.65	+0.09	+145.4	+9.9	−7.3	8.20838	+344	+39
	18	+0.02	+1.54	−0.11	+155.3	+2.0	−7.9	8.21182	+382	+38
	19	+1.56	+1.21	−0.33	+157.3	−5.3	−7.3	8.21564	+420	+38
	20	+2.77	+0.70	−0.51	+152.0	−11.1	−5.8	8.21984	+455	+35
	21	+3.47	+0.08	−0.62	+140.9	−14.8	−3.7	8.22439	+481	+26
	22	+3.55	−0.58	−0.66	+126.1	−16.7	−1.9	8.22920	+490	+9
	23	+2.97	−1.23	−0.65	+109.4	−17.1	−0.4	8.23410	+471	−19
	24	+1.74		−0.57	+92.3		+0.3	8.23881		−56
Dez.	7	−9.38 s	+0.75 s		−47.5"	+26.1"		8.20284	−245	
	8	−8.63	+0.73	−0.02 s	−21.4	+29.3	+3.2"	8.20039	−108	+137
	9	−7.90	+0.77	+0.04	+7.9	+30.8	+1.5	8.19931	+21	+129
	10	−7.13	+0.87	+0.10	+38.7	+30.4	−0.4	8.19952	+135	+114
	11	−6.26	+1.04	+0.17	+69.1	+28.4	−2.0	8.20087	+230	+95
	12	−5.22	+1.24	+0.20	+97.5	+24.5	−3.9	8.20317	+302	+72
	13	−3.98	+1.40	+0.16	+122.0	+18.9	−5.6	8.20619	+350	+48
	14	−2.58	+1.47	+0.07	+140.9	+12.0	−6.9	8.20969	+375	+25
	15	−1.11	+1.38	−0.09	+152.9	+4.5	−7.5	8.21344	+382	+7
	16	+0.27	+1.09	−0.29	+157.4	−2.8	−7.3	8.21726	+375	−7
	17	+1.36	+0.66	−0.43	+154.6	−8.9	−6.1	8.22101	+359	−16
	18	+2.02	+0.13	−0.53	+145.7	−13.3	−4.4	8.22460	+340	−19
	19	+2.15	−0.42	−0.55	+132.4	−16.1	−2.8	8.22800	+319	−21
	20	+1.73	−0.92	−0.50	+116.3	−17.6	−1.5	8.23119	+295	−24
	21	+0.81	−1.35	−0.43	+98.7	−18.3	−0.7	8.23414	+265	−30
	22	−0.54	−1.70	−0.35	+80.4	−18.7	−0.4	8.23679	+223	−42
	23	−2.24		−0.23	+61.7		−0.8	8.23902		−61

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I				TRABANT I				TRABANT I				TRABANT I			
		h m				h m				h m				h m	
Jan.	0	11 21.9	A.	März	18	8 28.5	A.	Aug.	1	12 59.0	E.	Okt.	18	9 57.8	E.
	2	5 50.8	A.		20	2 57.2	A.		3	7 27.6	E.		20	4 26.7	E.
	4	0 19.6	A.		21	21 25.9	A.		5	1 56.1	E.		21	22 55.3	E.
	5	18 48.5	A.		23	15 54.6	A.		6	20 24.7	E.		23	17 24.1	E.
	7	13 17.3	A.		25	10 23.3	A.		8	14 53.2	E.		25	11 52.8	E.
	9	7 46.2	A.						10	9 21.8	E.		27	6 21.6	E.
	11	2 15.0	A.			h m			12	3 50.3	E.		29	0 50.3	E.
	12	20 43.9	A.	Mai	28	1 22.8	E.		13	22 18.9	E.		30	19 19.1	E.
	14	15 12.7	A.		29	19 51.3	E.		15	16 47.4	E.	Nov.	1	13 47.8	E.
	16	9 41.6	A.		31	14 19.9	E.		17	11 16.0	E.		3	8 16.7	E.
	18	4 10.4	A.	Juni	2	8 48.5	E.		19	5 44.6	E.		3	10 27.1	A.
	19	22 39.2	A.		4	3 17.0	E.		21	0 13.2	E.		5	4 55.9	A.
	21	17 8.0	A.		5	21 45.6	E.		22	18 41.7	E.		6	23 24.7	A.
	23	11 36.9	A.		7	16 14.2	E.		24	13 10.3	E.		8	17 53.4	A.
	25	6 5.7	A.		9	10 42.7	E.		26	7 38.8	E.		10	12 22.3	A.
	27	0 34.5	A.		11	5 11.3	E.		28	2 7.4	E.		12	6 51.0	A.
	28	19 3.3	A.		12	23 39.8	E.		29	20 36.0	E.		14	1 19.9	A.
	30	13 32.1	A.		14	18 8.4	E.		31	15 4.6	E.		15	19 48.7	A.
Febr.	1	8 0.9	A.		16	12 36.9	E.	Sept.	2	9 33.1	E.		17	14 17.5	A.
	3	2 29.7	A.		18	7 5.5	E.		4	4 1.8	E.		19	8 46.3	A.
	4	20 58.5	A.		20	1 34.0	E.		5	22 30.3	E.		21	3 15.2	A.
	6	15 27.3	A.		21	20 2.6	E.		7	16 58.9	E.		22	21 44.0	A.
	8	9 56.1	A.		23	14 31.1	E.		9	11 27.5	E.		24	16 12.9	A.
	10	4 24.9	A.		25	8 59.7	E.		11	5 56.1	E.		26	10 41.7	A.
	11	22 53.7	A.		27	3 28.2	E.		13	0 24.7	E.		28	5 10.5	A.
	13	17 22.5	A.		28	21 56.8	E.		14	18 53.3	E.		29	23 39.3	A.
	15	11 51.3	A.		30	16 25.3	E.		16	13 21.9	E.	Dez.	1	18 8.2	A.
	17	6 20.0	A.	Juli	2	10 53.9	E.		18	7 50.6	E.		3	12 37.1	A.
	19	0 48.8	A.		4	5 22.4	E.		20	2 19.1	E.		5	7 6.0	A.
	20	19 17.6	A.		5	23 51.0	E.		21	20 47.8	E.		7	1 34.8	A.
	22	13 46.3	A.		7	18 19.5	E.		23	15 16.4	E.		8	20 3.8	A.
	24	8 15.1	A.		9	12 48.1	E.		25	9 45.1	E.		10	14 32.6	A.
	26	2 43.8	A.		11	7 16.5	E.		27	4 13.7	E.		12	9 1.5	A.
	27	21 12.6	A.		13	1 45.1	E.		28	22 42.4	E.		14	3 30.4	A.
	29	15 41.3	A.		14	20 13.6	E.		30	17 11.0	E.		15	21 59.3	A.
März	2	10 10.0	A.		16	14 42.2	E.	Okt.	2	11 39.7	E.		17	16 28.2	A.
	4	4 38.8	A.		18	9 10.7	E.		4	6 8.3	E.		19	10 57.1	A.
	5	23 7.5	A.		20	3 39.3	E.		6	0 37.1	E.		21	5 26.0	A.
	7	17 36.2	A.		21	22 7.8	E.		7	19 5.7	E.		22	23 54.9	A.
	9	12 5.0	A.		23	16 36.4	E.		9	13 34.4	E.		24	18 23.8	A.
	11	6 33.7	A.		25	11 4.9	E.		11	8 3.0	E.		26	12 52.7	A.
	13	1 2.4	A.		27	5 33.5	E.		13	2 31.8	E.		28	7 21.6	A.
	14	19 31.1	A.		29	0 2.0	E.		14	21 0.4	E.		30	1 50.5	A.
	16	13 59.8	A.		30	18 30.5	E.		16	15 29.2	E.		31	20 19.4	A.

Jupitertrabanten 1940

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

		h	m	
Jan.	0	6	29.9	A.
	3	17	11.1	E.
	3	19	49.6	A.
	7	9	8.6	A.
	10	22	28.4	A.
	14	11	47.4	A.
	18	1	7.2	A.
	21	14	26.2	A.
	25	3	46.1	A.
	28	17	5.1	A.
Febr.	1	6	24.9	A.
	4	19	43.9	A.
	8	9	3.8	A.
	11	22	22.7	A.
	15	11	42.6	A.
	19	1	1.5	A.
	22	14	21.4	A.
	26	3	40.2	A.
	29	17	0.0	A.
März	4	6	18.9	A.
	7	19	38.6	A.
	11	8	57.4	A.
	14	22	17.0	A.
	18	11	35.8	A.
	22	0	55.3	A.
	25	14	14.0	
		h	m	
Mai	28	11	14.5	E.
Juni	1	0	32.9	E.
	4	13	50.9	E.
	8	3	9.1	E.
	11	16	27.0	E.
	15	5	45.1	E.
	18	19	2.9	E.
	22	8	20.9	E.
	25	21	38.6	E.
	29	10	56.4	E.
Juli	3	0	14.0	E.
	6	13	31.7	E.
	10	2	49.3	E.
	13	16	6.9	E.
	13	18	40.4	A.
	17	5	24.4	E.
	17	7	57.9	A.
	20	18	41.9	E.
	20	21	15.3	A.
	24	7	59.3	E.
	24	10	32.7	A.
Juli	27	21	16.7	E.
	27	23	49.9	A.
	31	10	34.1	E.
	31	13	7.3	A.
Aug.	3	23	51.4	E.
	4	2	24.5	A.
	7	13	8.8	E.
	7	15	41.8	A.
	11	2	26.0	E.
	11	4	59.0	A.
	14	15	43.3	E.
	14	18	16.2	A.
	18	5	0.5	E.
	18	7	33.4	A.
	21	18	17.7	E.
	21	20	50.6	A.
	25	7	34.9	E.
	25	10	7.7	A.
	28	20	52.1	E.
	28	23	24.9	A.
Sept.	1	10	9.3	E.
	4	23	26.5	E.
	8	12	43.7	E.
	12	2	0.9	E.
	15	15	18.1	E.
	19	4	35.3	E.
	22	17	52.5	E.
	26	7	9.7	E.
	29	20	27.0	E.
Okt.	3	9	44.3	E.
	6	23	1.6	E.
	10	12	19.0	E.
	14	1	36.3	E.
	17	14	53.7	E.
	21	4	11.2	E.
	24	17	28.7	E.
	28	6	46.3	E.
	31	20	3.9	E.
Nov.	4	11	54.3	A.
	8	1	12.0	A.
	11	14	29.8	A.
	15	3	47.6	A.
	18	17	5.6	A.
	22	6	23.6	A.
	25	19	41.6	A.
	29	8	59.7	A.
Dez.	2	22	17.9	A.
	6	11	36.1	A.
Dez.	10	0	54.4	A.
	13	14	12.8	A.
	17	3	31.1	A.
	20	16	49.6	A.
	24	6	8.0	A.
	27	19	26.7	A.
	31	8	45.2	A.

TRABANT III

		h	m	
Jan.	5	3	16.8	E.
	5	5	47.1	A.
	12	7	20.0	E.
	12	9	49.2	A.
	19	11	22.4	E.
	19	13	50.5	A.
	26	15	24.9	E.
	26	17	51.8	A.
Febr.	2	19	27.1	E.
	2	21	52.8	A.
	9	23	29.4	E.
	10	1	54.0	A.
	17	3	32.1	E.
	17	5	55.6	A.
	24	7	34.5	E.
	24	9	56.9	A.
März	2	13	58.5	A.
	9	17	59.4	A.
	16	22	0.2	A.
	24	2	0.8	A.
		h	m	
Mai	27	11	57.3	E.
	27	14	6.6	A.
Juni	3	15	58.6	E.
	3	18	7.0	A.
	10	20	0.2	E.
	10	22	7.8	A.
	18	0	1.0	E.
	18	2	7.8	A.
	25	4	1.8	E.
	25	6	7.7	A.
Juli	2	8	2.4	E.
	2	10	7.5	A.
	9	12	3.2	E.
	9	14	7.6	A.
	16	16	4.6	E.
Juli	16	18	8.3	A.
	23	20	5.6	E.
	23	22	8.5	A.
	31	0	6.8	E.
	31	2	9.2	A.
Aug.	7	4	7.4	E.
	7	6	9.1	A.
	14	8	7.9	E.
	14	10	9.0	A.
	21	12	8.4	E.
	21	14	9.0	A.
	28	16	9.1	E.
	28	18	9.1	A.
Sept.	4	20	10.5	E.
	4	22	10.0	A.
	12	0	11.5	E.
	12	2	10.5	A.
	19	4	12.9	E.
	19	6	11.5	A.
	26	8	13.6	E.
	26	10	11.8	A.
Okt.	3	12	14.2	E.
	3	14	12.2	A.
	10	16	15.1	E.
	10	18	12.7	A.
	17	20	16.3	E.
	17	22	13.5	A.
	25	0	18.1	E.
Nov.	1	4	19.6	E.
	1	6	16.4	A.
	8	10	18.1	A.
	15	14	19.2	A.
	22	16	23.8	E.
	22	18	20.4	A.
	29	20	25.3	E.
	29	22	21.7	A.
Dez.	7	0	27.0	E.
	7	2	23.4	A.
	14	4	29.3	E.
	14	6	25.8	A.
	21	8	31.4	E.
	21	10	27.9	A.
	28	12	33.5	E.
	28	14	30.2	A.

TRABANT IV

wird nicht verfinstert.

0^h Welt-Zeit	α	β	p_α	a	b	U'	B'	P'
1940								
Jan. −6	18".78	16".94	+0".04	42".31	− 9".93	218°.816	−15°.828	+21°.529
+2	18.52	16.70	0.05	41.72	9.83	219.089	15.933	21.442
10	18.26	16.46	0.05	41.12	9.75	219.362	16.038	21.355
18	18.00	16.23	0.05	40.53	9.70	219.636	16.142	21.267
26	17.74	16.00	0.05	39.96	9.68	219.910	16.246	21.178
Febr. 3	17.50	15.79	+0.04	39.42	− 9.69	220.184	−16.350	+21.089
11	17.28	15.59	0.04	38.91	9.73	220.459	16.453	20.999
19	17.07	15.41	0.03	38.45	9.79	220.734	16.556	20.909
27	16.88	15.25	0.03	38.03	9.88	221.010	16.659	20.818
März 6	16.72	15.11	0.02	37.66	10.00	221.286	16.762	20.726
14	16.58	14.99	+0.02	37.34	−10.13	221.563	−16.864	+20.634
22	16.46	14.89	0.01	37.08	10.28	221.840	16.966	20.541
30	16.37	14.81	+0.01	36.87	10.44	222.118	17.067	20.448
April 7	16.30	14.75	0.00	36.72	10.62	222.396	17.168	20.354
15	16.26	14.72	0.00	36.62	10.81	222.674	17.269	20.259
23	16.24	14.71	0.00	36.58	−11.02	222.953	−17.370	+20.164
Mai 1	16.25	14.73	0.00	36.60	11.24	223.232	17.470	20.068
9	16.28	14.76	0.00	36.67	11.47	223.512	17.570	19.972
17	16.34	14.81	−0.01	36.80	11.71	223.792	17.669	19.875
25	16.42	14.89	0.01	36.98	11.96	224.072	17.768	19.777
Juni 2	16.52	14.99	−0.02	37.21	−12.21	224.353	−17.867	+19.679
10	16.65	15.11	0.02	37.50	12.47	224.634	17.965	19.580
18	16.80	15.25	0.03	37.84	12.73	224.916	18.063	19.481
26	16.97	15.41	0.03	38.22	13.00	225.198	18.161	19.381
Juli 4	17.16	15.59	0.04	38.65	13.27	225.481	18.258	19.280
12	17.37	15.79	−0.04	39.13	−13.54	225.764	−18.355	+19.179
20	17.60	16.00	0.05	39.64	13.80	226.048	18.452	19.078
28	17.84	16.22	0.05	40.19	14.06	226.332	18.548	18.976
Aug. 5	18.10	16.46	0.05	40.77	14.31	226.616	18.644	18.874
13	18.36	16.70	0.05	41.36	14.55	226.901	18.739	18.771
21	18.63	16.94	−0.05	41.96	−14.77	227.186	−18.834	+18.667
29	18.90	17.18	0.05	42.56	14.97	227.472	18.929	18.563
Sept. 6	19.16	17.42	0.04	43.15	15.14	227.758	19.023	18.458
14	19.41	17.64	0.04	43.71	15.27	228.045	19.117	18.352
22	19.64	17.85	0.03	44.23	15.37	228.332	19.210	18.246
30	19.84	18.03	−0.02	44.69	−15.43	228.619	−19.303	+18.139
Okt. 8	20.01	18.18	0.01	45.07	15.45	228.907	19.395	18.032
16	20.14	18.30	−0.01	45.37	15.43	229.195	19.487	17.924
24	20.23	18.38	0.00	45.57	15.36	229.484	19.579	17.815
Nov. 1	20.27	18.41	0.00	45.67	15.25	229.773	19.670	17.706
9	20.26	18.40	0.00	45.65	−15.10	230.063	−19.761	+17.596
17	20.21	18.34	0.00	45.52	14.92	230.353	19.852	17.486
25	20.11	18.24	+0.01	45.29	14.72	230.644	19.942	17.375
Dez. 3	19.96	18.11	0.02	44.96	14.50	230.935	20.032	17.264
11	19.77	17.94	0.02	44.55	14.28	231.227	20.121	17.152
19	19.56	17.74	0.03	44.06	14.06	231.519	20.210	17.040
27	19.32	17.52	0.04	43.52	13.86	231.811	20.298	16.927
35	19.06	17.29	+0.05	42.94	−13.67	232.104	−20.385	+16.814

Saturn und Saturnsring 1940

0h Welt-Zeit		U	B	P	$\log \frac{(\Delta)}{\Delta}$
1940		°	°	°	
Jan.	−2	255.253	−13.596	+1.724	0.02847
	+2	255.265	13.622	1.722	0.02538
	6	255.306	13.660	1.717	0.02225
	10	255.375	13.709	1.710	0.01911
	14	255.471	13.770	1.699	0.01597
	18	255.595	−13.842	+1.685	0.01284
	22	255.745	13.924	1.668	0.00975
	26	255.922	14.017	1.648	0.00670
	30	256.124	14.119	1.625	0.00370
Febr.	3	256.351	14.231	1.599	0.00077
	7	256.602	−14.352	+1.571	9.99792
	11	256.875	14.480	1.540	9.99516
	15	257.170	14.616	1.507	9.99250
	19	257.486	14.759	1.471	9.98995
	23	257.822	14.909	1.433	9.98751
	27	258.177	−15.064	+1.392	9.98519
März	2	258.549	15.224	1.349	9.98301
	6	258.938	15.390	1.304	9.98096
	10	259.343	15.560	1.257	9.97905
	14	259.762	15.733	1.209	9.97729
	18	260.194	−15.909	+1.159	9.97568
	22	260.638	16.088	1.108	9.97422
	26	261.093	16.268	1.055	9.97292
	30	261.558	16.450	1.001	9.97177
April	3	262.032	16.632	0.946	9.97079
	7	262.513	−16.815	+0.889	9.96997
	11	263.001	16.997	0.832	9.96932
	15	263.494	17.179	0.774	9.96883
	19	263.991	17.360	0.716	9.96851
	23	264.491	17.539	0.657	9.96835
	27	264.993	−17.716	+0.598	9.96836
Mai	1	265.495	17.891	0.538	9.96853
	5	265.997	18.063	0.478	9.96887
	9	266.497	18.231	0.419	9.96937
	13	266.995	18.396	0.360	9.97003
	17	267.489	−18.557	+0.301	9.97086
	21	267.978	18.714	0.243	9.97184
	25	268.460	18.866	0.185	9.97298
	29	268.935	19.013	0.128	9.97427
Juni	2	269.402	19.155	0.072	9.97572
	6	269.859	−19.292	+0.017	9.97731
	10	270.305	19.423	−0.037	9.97904
	14	270.739	19.549	0.089	9.98092
	18	271.160	19.668	0.140	9.98293
	22	271.567	19.781	0.189	9.98507
	26	271.958	19.887	0.236	9.98733
	30	272.333	19.986	0.281	9.98971
Juli	4	272.690	−20.079	−0.324	9.99221

0h Welt-Zeit		U	B	P	$\log \frac{(\Delta)}{\Delta}$
1940		°	°	°	
Juli	4	272.690	−20.079	−0.324	9.99221
	8	273.028	20.165	0.365	9.99482
	12	273.345	20.243	0.403	9.99752
	16	273.641	20.314	0.439	0.00031
	20	273.915	20.377	0.472	0.00319
	24	274.165	−20.433	−0.503	0.00613
	28	274.392	20.481	0.530	0.00914
Aug.	1	274.594	20.521	0.554	0.01221
	5	274.769	20.554	0.575	0.01531
	9	274.917	20.579	0.593	0.01845
	13	275.038	−20.596	−0.607	0.02160
	17	275.131	20.605	0.618	0.02475
	21	275.195	20.606	0.626	0.02789
	25	275.230	20.599	0.630	0.03101
	29	275.236	20.585	0.631	0.03408
Sept.	2	275.212	−20.563	−0.628	0.03710
	6	275.160	20.533	0.622	0.04005
	10	275.079	20.496	0.612	0.04290
	14	274.970	20.451	0.599	0.04565
	18	274.834	20.399	0.583	0.04828
	22	274.672	−20.341	−0.563	0.05076
	26	274.485	20.277	0.540	0.05309
	30	274.273	20.206	0.515	0.05525
Okt.	4	274.039	20.130	0.487	0.05722
	8	273.785	20.050	0.456	0.05899
	12	273.513	−19.966	−0.423	0.06054
	16	273.226	19.877	0.388	0.06186
	20	272.926	19.785	0.352	0.06294
	24	272.614	19.691	0.314	0.06377
	28	272.294	19.596	0.276	0.06435
Nov.	1	271.969	−19.500	−0.237	0.06467
	5	271.642	19.405	0.198	0.06472
	9	271.316	19.310	0.158	0.06451
	13	270.993	19.217	0.119	0.06404
	17	270.677	19.128	0.081	0.06330
	21	270.370	−19.043	−0.044	0.06231
	25	270.076	18.962	−0.009	0.06108
	29	269.796	18.886	+0.024	0.05960
Dez.	3	269.533	18.817	0.056	0.05790
	7	269.290	18.755	0.086	0.05599
	11	269.068	−18.700	+0.112	0.05387
	15	268.870	18.654	0.135	0.05157
	19	268.696	18.616	0.156	0.04911
	23	268.548	18.587	0.174	0.04650
	27	268.428	18.568	0.188	0.04375
	31	268.336	18.558	0.199	0.04089
	35	268.273	−18.558	+0.207	0.03793

0^h Welt-Zeit	L	M	L	M	L	L	M	L	M
	MIMAS		ENCELADUS		TETHYS	DIONE		RHEA	
1940	°	°	°	°	°	°	°	°	°
Jan. − 6	194.256	29.45	83.869	120.8	295.809	204.273	37.9	128.998	322.9
+10	185.993	5.17	327.563	359.1	106.982	148.832	341.1	324.038	158.1
26	177.729	340.89	211.256	237.4	278.155	93.391	284.3	159.077	353.2
Febr. 11	169.466	316.61	94.949	115.7	89.329	37.950	227.5	354.117	188.3
27	161.203	292.33	338.643	354.0	260.502	342.508	170.7	189.156	23.4
Juli 4	95.108	98.13	128.200	100.3	189.888	258.977	76.6	309.472	144.4
20	86.847	73.86	11.898	338.6	1.061	203.536	19.8	144.512	339.5
Aug. 5	78.587	49.59	255.596	216.9	172.235	148.094	323.0	339.551	174.6
21	70.327	25.31	139.295	95.2	343.408	92.652	266.2	174.591	9.7
Sept. 6	62.067	1.03	22.995	333.5	154.581	37.211	209.4	9.630	204.9
22	53.807	336.76	266.696	211.8	325.754	341.769	152.6	204.670	40.0
Okt. 8	45.548	312.49	150.398	90.1	136.927	286.327	95.8	39.709	235.1
24	37.289	288.22	34.101	328.4	308.100	230.885	39.0	234.749	70.2
Nov. 9	29.031	263.94	277.805	206.7	119.274	175.443	342.2	69.788	265.3
25	20.773	239.67	161.511	85.0	290.447	120.001	285.4	264.828	100.4
Dez. 11	12.515	215.40	45.218	323.3	101.620	64.559	228.6	99.867	295.5
27	4.257	191.13	288.926	201.6	272.793	9.117	171.8	294.907	130.7
43	356.000	166.86	172.635	79.9	83.966	313.674	115.0	129.946	325.8

0^h Welt-Zeit	L	M	L	M	e	log a	L	M
	TITAN		HYPERION				JAPETUS	
1940	°	°	°	°			°	°
Jan. − 6	69.535	250.45	165.933	263.62	0.09725	2.32965	44.983	91.58
+10	70.768	251.66	77.927	176.51	0.09791	2.32975	117.592	164.19
26	72.001	252.87	349.802	89.27	0.09865	2.32989	190.202	236.79
Febr. 11	73.234	254.08	261.531	1.87	0.09946	2.33005	262.811	309.39
27	74.466	255.29	173.090	274.29	0.10034	2.33024	335.420	21.99
Juli 4	84.328	264.96	178.005	285.59	0.10794	2.33199	196.296	242.81
20	85.560	266.17	87.717	196.05	0.10873	2.33216	268.905	315.41
Aug. 5	86.793	267.38	357.285	106.35	0.10945	2.33230	341.515	28.01
21	88.026	268.59	266.736	16.52	0.11009	2.33242	54.124	100.61
Sept. 6	89.259	269.80	176.102	286.59	0.11063	2.33250	126.733	173.22
22	90.491	271.01	85.418	196.61	0.11108	2.33255	199.343	245.82
Okt. 8	91.724	272.22	354.717	106.62	0.11143	2.33256	271.952	318.42
24	92.957	273.43	264.034	16.64	0.11167	2.33254	344.562	31.02
Nov. 9	94.189	274.63	173.404	286.70	0.11181	2.33248	57.171	103.62
25	95.422	275.84	82.861	196.85	0.11186	2.33238	129.781	176.23
Dez. 11	96.655	277.05	352.435	107.13	0.11183	2.33224	202.390	248.83
27	97.887	278.26	262.155	17.56	0.11173	2.33207	274.999	321.43
43	99.120	279.47	172.045	288.16	0.11155	2.33189	347.609	34.03

Saturnstrabanten 1940

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan		Japetus	
	L	M	L	M	L	L	M	L	M	L	M	L	M
d	°	°	°	°	°	°	°	°	°	°	°	°	°
1	21.9837	20.983	262.7312	262.39	190.6983	131.5349	131.45	79.6900	79.69	22.5771	22.576	4.5381	4.538
2	43.9675	41.966	165.4625	164.79	21.3966	263.0698	262.90	159.3799	159.39	45.1541	45.151	9.0762	9.075
3	65.9512	62.948	68.1937	67.18	212.0949	34.6046	34.35	239.0699	239.08	67.7312	67.727	13.6143	13.612
4	87.9350	83.931	330.9250	329.58	42.7932	166.1395	165.80	318.7599	318.78	90.3082	90.302	18.1524	18.150
5	109.9187	104.914	233.6562	231.97	233.4916	297.6744	297.25	38.4498	38.47	112.8853	112.878	22.6905	22.688
6	131.9025	125.897	136.3875	134.36	64.1899	69.2093	68.70	118.1398	118.16	135.4624	135.454	27.2286	27.225
7	153.8862	146.880	39.1187	36.76	254.8882	200.7441	200.15	197.8298	197.86	158.0394	158.029	31.7667	31.762
8	175.8700	167.862	301.8500	299.15	85.5865	332.2790	331.60	277.5197	277.55	180.6165	180.605	36.3048	36.300
9	197.8537	188.845	204.5812	201.54	276.2848	103.8139	103.05	357.2097	357.24	203.1936	203.181	40.8428	40.838
10	219.8375	209.828	107.3125	103.94	106.9831	235.3488	234.50	76.8997	76.94	225.7706	225.756	45.3809	45.375
11	241.8212	230.811	10.0437	6.33	297.6814	6.8836	5.95	156.5897	156.63	248.3477	248.332	49.9190	49.912
12	263.8050	251.794	272.7750	268.72	128.3797	138.4185	137.40	236.2796	236.32	270.9247	270.908	54.4571	54.450
13	285.7887	272.777	175.5062	171.12	319.0781	269.9534	268.85	315.9696	316.02	293.5018	293.483	58.9952	58.988
14	307.7725	293.759	78.2375	73.51	149.7764	41.4883	40.30	35.6596	35.71	316.0789	316.059	63.5333	63.525
15	329.7562	314.742	340.9687	335.91	340.4747	173.0231	171.75	115.3495	115.41	338.6559	338.634	68.0714	68.062
16	351.7400	335.725	243.7000	238.30	171.1730	304.5580	303.20	195.0395	195.10	361.2330	361.210	72.6095	72.600
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.1	38.1984	38.098	26.2731	26.24	19.0698	13.1535	13.14	7.9690	7.97	2.2577	2.258	0.4538	0.454
0.2	76.3967	76.197	52.5462	52.48	38.1397	26.3070	26.29	15.9380	15.94	4.5154	4.515	0.9076	0.908
0.3	114.5951	114.295	78.8194	78.72	57.2095	39.4605	39.44	23.9070	23.91	6.7731	6.773	1.3614	1.361
0.4	152.7935	152.393	105.0925	104.96	76.2793	52.6140	52.58	31.8760	31.88	9.0308	9.030	1.8152	1.815
0.5	190.9918	190.491	131.3656	131.20	95.3492	65.7674	65.72	39.8450	39.85	11.2885	11.288	2.2690	2.269
0.6	229.1902	228.590	157.6387	157.44	114.4190	78.9209	78.87	47.8140	47.81	13.5462	13.545	2.7229	2.722
0.7	267.3886	266.688	183.9119	183.68	133.4888	92.0744	92.02	55.7830	55.78	15.8039	15.803	3.1767	3.176
0.8	305.5870	304.786	210.1850	209.92	152.5586	105.2279	105.16	63.7520	63.75	18.0616	18.060	3.6305	3.630
0.9	343.7854	342.885	236.4581	236.15	171.6285	118.3814	118.30	71.7210	71.72	20.3194	20.318	4.0843	4.084
1.0	381.9837	380.983	262.7312	262.39	190.6983	131.5349	131.45	79.6900	79.69	22.5771	22.576	4.5381	4.538
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.01	3.8198	3.810	2.6273	2.62	1.9070	1.3153	1.31	0.7969	0.80	0.2258	0.226	0.0454	0.045
0.02	7.6397	7.620	5.2546	5.25	3.8140	2.6307	2.63	1.5938	1.59	0.4515	0.452	0.0908	0.091
0.03	11.4595	11.429	7.8819	7.87	5.7209	3.9460	3.94	2.3907	2.39	0.6773	0.677	0.1361	0.136
0.04	15.2793	15.239	10.5092	10.50	7.6279	5.2614	5.26	3.1876	3.19	0.9031	0.903	0.1815	0.182
0.05	19.0992	19.049	13.1366	13.12	9.5349	6.5767	6.57	3.9845	3.98	1.1289	1.129	0.2269	0.227
0.06	22.9190	22.859	15.7639	15.74	11.4419	7.8921	7.89	4.7814	4.78	1.3546	1.355	0.2723	0.272
0.07	26.7389	26.669	18.3912	18.37	13.3489	9.2074	9.20	5.5783	5.58	1.5804	1.580	0.3177	0.318
0.08	30.5587	30.479	21.0185	20.99	15.2559	10.5228	10.52	6.3752	6.38	1.8062	1.806	0.3630	0.363
0.09	34.3785	34.288	23.6458	23.62	17.1628	11.8381	11.83	7.1721	7.17	2.0319	2.032	0.4084	0.408
0.10	38.1984	38.098	26.2731	26.24	19.0698	13.1535	13.14	7.9690	7.97	2.2577	2.258	0.4538	0.454
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.001	0.3820	0.381	0.2627	0.26	0.1907	0.1315	0.13	0.0797	0.08	0.0226	0.023	0.0045	0.005
0.002	0.7640	0.762	0.5255	0.52	0.3814	0.2631	0.26	0.1594	0.16	0.0452	0.045	0.0091	0.009
0.003	1.1460	1.143	0.7882	0.79	0.5721	0.3946	0.39	0.2391	0.24	0.0677	0.068	0.0136	0.014
0.004	1.5279	1.524	1.0509	1.05	0.7628	0.5261	0.53	0.3188	0.32	0.0903	0.090	0.0182	0.018
0.005	1.9099	1.905	1.3137	1.31	0.9535	0.6577	0.66	0.3984	0.40	0.1129	0.113	0.0227	0.023
0.006	2.2919	2.286	1.5764	1.57	1.1442	0.7892	0.79	0.4781	0.48	0.1355	0.135	0.0272	0.027
0.007	2.6739	2.667	1.8391	1.84	1.3349	0.9207	0.92	0.5578	0.56	0.1580	0.158	0.0318	0.032
0.008	3.0559	3.048	2.1018	2.10	1.5256	1.0523	1.05	0.6375	0.64	0.1806	0.181	0.0363	0.036
0.009	3.4379	3.429	2.3646	2.36	1.7163	1.1838	1.18	0.7172	0.72	0.2032	0.203	0.0408	0.041
0.010	3.8198	3.810	2.6273	2.62	1.9070	1.3153	1.31	0.7969	0.80	0.2258	0.226	0.0454	0.045

0h Welt-Zeit	ϑ Mimas	ϑ Encel.	ϑ Tethys	ϑ Dione	ϑ Rhea	γ Rhea	N Saturnsring	J Saturnsring	ω Saturnsring
1940	°	°	°	°	°	′	°	°	°
Jan. −6	121.3	98.5	278.3	301.5	227.8	22.35	127.995	6.734	41.791
+10	105.3	91.8	275.1	300.1	227.4	22.35	127.997	6.733	41.789
26	89.3	85.2	272.0	298.8	227.0	22.35	127.999	6.733	41.788
Febr. 11	73.3	78.5	268.8	297.4	226.6	22.35	128.001	6.733	41.787
27	57.3	71.8	265.6	296.1	226.2	22.36	128.002	6.733	41.785
März 14	41.3	65.1	262.5	294.7	225.8	22.36	128.004	6.733	41.784
30	25.3	58.4	259.3	293.3	225.3	22.36	128.006	6.732	41.783
April 15	9.3	51.7	256.1	292.0	224.9	22.36	128.008	6.732	41.782
Mai 1	353.3	45.0	253.0	290.6	224.5	22.36	128.010	6.732	41.780
17	337.3	38.3	249.8	289.3	224.1	22.36	128.012	6.732	41.779
Juni 2	321.3	31.6	246.6	287.9	223.7	22.36	128.013	6.732	41.778
18	305.3	24.9	243.5	286.5	223.3	22.36	128.015	6.731	41.776
Juli 4	289.3	18.2	240.3	285.2	222.9	22.36	128.017	6.731	41.775
20	273.3	11.6	237.1	283.8	222.5	22.36	128.019	6.731	41.774
Aug. 5	257.3	4.9	234.0	282.5	222.1	22.36	128.021	6.731	41.773
21	241.3	358.2	230.8	281.1	221.7	22.36	128.023	6.731	41.771
Sept. 6	225.3	351.5	227.6	279.7	221.3	22.36	128.025	6.730	41.770
22	209.3	344.8	224.5	278.4	220.9	22.36	128.026	6.730	41.769
Okt. 8	193.3	338.1	221.3	277.0	220.5	22.36	128.028	6.730	41.767
24	177.3	331.4	218.1	275.7	220.1	22.36	128.030	6.730	41.766
Nov. 9	161.3	324.7	215.0	274.3	219.6	22.36	128.032	6.730	41.765
25	145.3	318.0	211.8	272.9	219.2	22.36	128.034	6.729	41.764
Dez. 11	129.3	311.3	208.6	271.6	218.8	22.36	128.036	6.729	41.762
27	113.3	304.6	205.5	270.2	218.4	22.36	128.037	6.729	41.761
43	97.3	298.0	202.3	268.9	218.0	22.36	128.039	6.729	41.760

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

$u-U$		Mimas	Encel.	Tethys	Dione	Rhea	$u-U$	
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

Saturnstrabanten 1940

0h Welt-Zeit	TITAN			HYPERION			JAPETUS		
	U	*B*	*P*	*U*	*B*	*P*	*U*	*B*	*P*
1940	°	°	°	°	°	°	°	°	°
Jan. −6	259.176	−13.642	+1.264	254.178	−13.592	+1.859	335.228	−13.401	−13.169
+2	259.175	13.683	1.264	254.179	13.634	1.859	335.238	13.441	13.171
10	259.286	13.770	1.252	254.292	13.722	1.846	335.369	13.498	13.188
18	259.509	13.901	1.227	254.515	13.856	1.821	335.618	13.571	13.219
26	259.839	14.074	1.189	254.846	14.032	1.784	335.982	13.658	13.263
Febr. 3	260.270	−14.284	+1.139	255.278	−14.247	+1.735	336.454	−13.758	−13.318
11	260.797	14.529	1.079	255.805	14.498	1.675	337.026	13.868	13.384
19	261.412	14.804	1.008	256.419	14.779	1.605	337.691	13.985	13.459
27	262.107	15.104	0.927	257.113	15.086	1.526	338.439	14.107	13.542
März 6	262.873	15.424	0.838	257.878	15.415	1.438	339.260	14.233	13.630
14	263.701	−15.761	+0.742	258.704	−15.760	+1.342	340.144	−14.359	−13.722
22	264.581	16.109	0.639	259.583	16.117	1.240	341.081	14.485	13.817
30	265.505	16.464	0.531	260.506	16.481	1.133	342.060	14.607	13.912
April 7	266.465	16.821	0.418	261.464	16.849	1.021	343.073	14.724	14.007
15	267.450	17.178	0.302	262.447	17.216	0.905	344.109	14.835	14.099
23	268.451	−17.530	+0.184	263.447	−17.578	+0.787	345.157	−14.938	−14.188
Mai 1	269.459	17.874	+0.064	264.454	17.932	0.667	346.209	15.033	14.273
9	270.465	18.207	−0.056	265.460	18.275	0.547	347.255	15.119	14.353
17	271.460	18.525	0.174	266.455	18.604	0.428	348.286	15.194	14.428
25	272.435	18.826	0.290	267.429	18.915	0.311	349.291	15.259	14.496
Juni 2	273.381	−19.108	−0.403	268.375	−19.207	+0.197	350.262	−15.314	−14.558
10	274.287	19.369	0.512	269.282	19.477	+0.087	351.189	15.358	14.613
18	275.145	19.607	0.615	270.141	19.724	−0.017	352.063	15.391	14.661
26	275.946	19.820	0.711	270.942	19.945	0.114	352.876	15.415	14.703
Juli 4	276.680	20.007	0.799	271.676	20.139	0.204	353.618	15.429	14.739
12	277.337	−20.166	−0.878	272.335	−20.304	−0.284	354.280	−15.435	−14.768
20	277.910	20.296	0.946	272.909	20.440	0.354	354.853	15.433	14.791
28	278.389	20.397	1.003	273.390	20.546	0.413	355.331	15.423	14.809
Aug. 5	278.767	20.467	1.049	273.771	20.620	0.459	355.706	15.406	14.822
13	279.037	20.507	1.081	274.044	20.662	0.492	355.972	15.384	14.830
21	279.195	−20.516	−1.100	274.204	−20.673	−0.511	356.124	−15.358	−14.834
29	279.237	20.494	1.105	274.249	20.652	0.517	356.159	15.328	14.834
Sept. 6	279.163	20.442	1.096	274.178	20.600	0.508	356.076	15.294	14.829
14	278.974	20.362	1.073	273.992	20.518	0.485	355.878	15.258	14.820
22	278.676	20.255	1.037	273.697	20.408	0.449	355.571	15.220	14.806
30	278.277	−20.124	−0.989	273.302	−20.274	−0.401	355.162	−15.182	−14.789
Okt. 8	277.789	19.971	0.931	272.818	20.117	0.342	354.664	15.143	14.768
16	277.230	19.802	0.864	272.263	19.942	0.275	354.094	15.104	14.742
24	276.618	19.622	0.790	271.655	19.756	0.201	353.470	15.068	14.712
Nov. 1	275.973	19.436	0.713	271.014	19.564	0.123	352.813	15.034	14.680
9	275.319	−19.251	−0.635	270.364	−19.373	−0.044	352.148	−15.003	−14.646
17	274.680	19.075	0.558	269.730	19.191	+0.033	351.498	14.978	14.612
25	274.079	18.913	0.486	269.133	19.024	0.105	350.887	14.959	14.578
Dez. 3	273.537	18.772	0.421	268.594	18.878	0.170	350.337	14.948	14.546
11	273.072	18.659	0.366	268.133	18.761	0.226	349.867	14.946	14.519
19	272.700	18.578	0.322	267.764	18.676	0.270	349.493	14.953	14.497
27	272.433	18.532	0.290	267.500	18.628	0.302	349.228	14.970	14.481
35	272.279	−18.524	−0.271	267.349	−18.618	+0.320	349.081	−14.998	−14.474

0^h Welt-Zeit	HYPERION $\alpha_{tr}-\alpha_{pl}$		HYPERION $\delta_{tr}-\delta_{pl}$	
1940	s	s	″	″
Jan. 0	+ 3.5	+8.1	−48	+14
2	+11.6	+3.3	−34	+29
4	+14.9	−2.1	− 5	+31
6	+12.8	−6.1	+26	+23
8	+ 6.7	−7.8	+49	+10
10	− 1.1	−7.5	+59	− 6
12	− 8.6	−5.1	+53	−20
14	−13.7	−1.0	+33	−30
16	−14.7	+4.1	+ 3	−30
18	−10.6	+8.3	−27	−19
20	− 2.3	+9.2	−46	+ 2
22	+ 6.9	+6.2	−44	+22
24	+13.1	+1.1	−22	+30
26	+14.2	−3.7	+ 8	+28
28	+10.5	−6.7	+36	+18
30	+ 3.8	−7.7	+54	+ 4
Febr. 1	− 3.9	−6.6	+58	−12
3	−10.5	−3.6	+46	−24
5	−14.1	+0.8	+22	−31
7	−13.3	+5.7	− 9	−28
9	− 7.6	+8.9	−37	−11
11	+ 1.3	+8.2	−48	+11
13	+ 9.5	+4.2	−37	+26
15	+13.7	−0.8	−11	+31
17	+12.9	−4.7	+20	+25
19	+ 8.2	−7.0	+45	+13
21	+ 1.2		+58	
Juli 4	−13.7	+1.2	+19	−44
6	−12.5	+6.4	−25	−33
8	− 6.1	+9.2	−58	− 7
10	+ 3.1	+8.0	−65	+22
12	+11.1	+3.9	−43	+39
14	+15.0	−0.8	− 4	+41
16	+14.2	−4.8	+37	+32
18	+ 9.4	−7.1	+69	+14
20	+ 2.3	−7.7	+83	− 6
22	− 5.4	−6.3	+77	−28
24	−11.7		+49	

0^h Welt-Zeit	HYPERION $\alpha_{tr}-\alpha_{pl}$		HYPERION $\delta_{tr}-\delta_{pl}$	
1940	s	s	″	″
Juli 24	−11.7	− 2.6	+49	−43
26	−14.3	+ 2.8	+ 6	−44
28	−11.5	+ 7.8	−38	−29
30	− 3.7	+ 9.6	−67	+ 3
Aug. 1	+ 5.9	+ 7.3	−64	+30
3	+13.2	+ 2.7	−34	+43
5	+15.9	− 2.1	+ 9	+41
7	+13.8	− 5.8	+50	+28
9	+ 8.0	− 7.8	+78	+ 9
11	+ 0.2	− 7.9	+87	−13
13	− 7.7	− 5.7	+74	−34
15	−13.4	− 1.2	+40	−48
17	−14.6	+ 4.6	− 8	−44
19	−10.0	+ 9.2	−52	−20
21	− 0.8	+ 9.7	−72	+12
23	+ 8.9	+ 6.2	−60	+37
25	+15.1	+ 1.3	−23	+46
27	+16.4	− 3.5	+23	+40
29	+12.9	− 6.8	+63	+24
31	+ 6.1	− 8.4	+87	+ 2
Sept. 2	− 2.3	− 7.8	+89	−21
4	−10.1	− 4.8	+68	−41
6	−14.9	+ 0.6	+27	−51
8	−14.3	+ 6.6	−24	−40
10	− 7.7	+10.3	−64	−10
12	+ 2.6	+ 9.2	−74	+23
14	+11.8	+ 4.9	−51	+42
16	+16.7	− 0.4	− 9	+47
18	+16.3	− 4.9	+38	+36
20	+11.4	− 7.8	+74	+18
22	+ 3.6	− 8.7	+92	− 5
24	− 5.1	− 7.4	+87	−29
26	−12.5	− 3.3	+58	−47
28	−15.8	+ 2.7	+11	−51
30	−13.1	+ 8.5	−40	−32
Okt. 2	− 4.6	+10.7	−72	+ 1
4	+ 6.1	+ 8.3	−71	+32
6	+14.4	+ 3.2	−39	+46
8	+17.6	− 2.2	+ 7	+45
10	+15.4	− 6.2	+52	+31
12	+ 9.2		+83	

0^h Welt-Zeit	HYPERION $\alpha_{tr}-\alpha_{pl}$		HYPERION $\delta_{tr}-\delta_{pl}$	
1940	s	s	″	″
Okt. 12	+ 9.2	− 8.6	+83	+10
14	+ 0.6	− 8.7	+93	−13
16	− 8.1	− 6.4	+80	−36
18	−14.5	− 1.4	+44	−50
20	−15.9	+ 5.0	− 6	−47
22	−10.9	+10.0	−53	−22
24	− 0.9	+10.5	−75	+13
26	+ 9.6	+ 6.7	−62	+38
28	+16.3	+ 1.2	−24	+47
30	+17.5	− 3.8	+23	+40
Nov. 1	+13.7	− 7.4	+63	+25
3	+ 6.3	− 8.9	+88	+ 2
5	− 2.6	− 8.3	+90	−21
7	−10.9	− 4.8	+69	−42
9	−15.7	+ 0.8	+27	−50
11	−14.9	+ 7.2	−23	−40
13	− 7.7	+10.7	−63	−10
15	+ 3.0	+ 9.5	−73	+23
17	+12.5	+ 4.8	−50	+42
19	+17.3	− 0.8	− 8	+45
21	+16.5	− 5.3	+37	+35
23	+11.2	− 8.1	+72	+16
25	+ 3.1	− 8.9	+88	− 6
27	− 5.8	− 7.2	+82	−28
29	−13.0	− 3.0	+54	−44
Dez. 1	−16.0	+ 3.2	+10	−48
3	−12.8	+ 8.8	−38	−29
5	− 4.0	+10.6	−67	+ 1
7	+ 6.6	+ 7.9	−66	+31
9	+14.5	+ 2.7	−35	+42
11	+17.2	− 2.5	+ 7	+41
13	+14.7	− 6.3	+48	+28
15	+ 8.4	− 8.5	+76	+ 9
17	− 0.1	− 8.3	+85	−13
19	− 8.4	− 5.8	+72	−33
21	−14.2	− 1.0	+39	−46
23	−15.2	+ 5.2	− 7	−42
25	−10.0	+ 9.8	−49	−19
27	− 0.2	+ 9.8	−68	+12
29	+ 9.6	+ 6.0	−56	+35
31	+15.6		−21	

Saturnstrabanten 1940

0ʰ Welt-Zeit 1940	JAPETUS $\alpha_{tr}-\alpha_{pl}$	Δ	JAPETUS $\delta_{tr}-\delta_{pl}$	Δ
Jan. 0	+35.5ˢ	−1.6ˢ	+146″	+14″
2	+33.9	−2.4	+160	+10
4	+31.5	−3.2	+170	+ 6
6	+28.3	−3.8	+176	+ 2
8	+24.5	−4.3	+178	− 2
10	+20.2	−4.7	+176	− 6
12	+15.5	−5.1	+170	− 9
14	+10.4	−5.3	+161	−13
16	+ 5.1	−5.3	+148	−17
18	− 0.2	−5.3	+131	−20
20	− 5.5	−5.1	+111	−22
22	−10.6	−4.9	+ 89	−24
24	−15.5	−4.4	+ 65	−25
26	−19.9	−3.9	+ 40	−26
28	−23.8	−3.4	+ 14	−26
30	−27.2	−2.7	− 12	−25
Febr. 1	−29.9	−1.9	− 37	−25
3	−31.8	−1.1	− 62	−23
5	−32.9	−0.3	− 85	−21
7	−33.2	+0.5	−106	−18
9	−32.7	+1.3	−124	−15
11	−31.4	+2.1	−139	−11
13	−29.3	+2.8	−150	− 8
15	−26.5	+3.5	−158	− 4
17	−23.0	+4.1	−162	+ 1
19	−18.9	+4.6	−161	+ 5
21	−14.3		−156	
Juli 4	−13.8ˢ	−4.5ˢ	+ 80″	−26″
6	−18.3	−4.2	+ 54	−28
8	−22.5	−3.6	+ 26	−29
10	−26.1	−3.0	− 3	−29
12	−29.1	−2.3	− 32	−28
14	−31.4	−1.6	− 60	−27
16	−33.0	−0.7	− 87	−25
18	−33.7	+0.1	−112	−22
20	−33.6	+1.0	−134	−19
22	−32.6	+1.8	−153	−15
24	−30.8		−168	

0ʰ Welt-Zeit 1940	JAPETUS $\alpha_{tr}-\alpha_{pl}$	Δ	JAPETUS $\delta_{tr}-\delta_{pl}$	Δ
Juli 24	−30.8ˢ	+2.6ˢ	−168″	−10″
26	−28.2	+3.5	−178	− 6
28	−24.7	+4.2	−184	− 1
30	−20.5	+4.7	−185	+ 4
Aug. 1	−15.8	+5.1	−181	+ 9
3	−10.7	+5.5	−172	+13
5	− 5.2	+5.7	−159	+17
7	+ 0.5	+5.7	−142	+22
9	+ 6.2	+5.6	−120	+25
11	+11.8	+5.3	− 95	+28
13	+17.1	+4.9	− 67	+30
15	+22.0	+4.4	− 37	+30
17	+26.4	+3.8	− 7	+31
19	+30.2	+3.1	+ 24	+31
21	+33.3	+2.3	+ 55	+30
23	+35.6	+1.4	+ 85	+28
25	+37.0	+0.6	+113	+25
27	+37.6	−0.4	+138	+23
29	+37.2	−1.3	+161	+19
31	+35.9	−2.0	+180	+14
Sept. 2	+33.9	−2.9	+194	+10
4	+31.0	−3.7	+204	+ 5
6	+27.3	−4.3	+209	0
8	+23.0	−4.9	+209	− 4
10	+18.1	−5.3	+205	− 9
12	+12.8	−5.7	+196	−14
14	+ 7.1	−5.9	+182	−18
16	+ 1.2	−6.0	+164	−23
18	− 4.8	−5.9	+141	−26
20	−10.7	−5.7	+115	−29
22	−16.4	−5.3	+ 86	−31
24	−21.7	−4.7	+ 55	−33
26	−26.4	−4.1	+ 22	−33
28	−30.5	−3.4	− 11	−34
30	−33.9	−2.5	− 45	−33
Okt. 2	−36.4	−1.5	− 78	−30
4	−37.9	−0.5	−108	−27
6	−38.4	+0.6	−135	−24
8	−37.8	+1.6	−159	−19
10	−36.2	+2.6	−178	−15
12	−33.6		−193	

0ʰ Welt-Zeit 1940	JAPETUS $\alpha_{tr}-\alpha_{pl}$	Δ	JAPETUS $\delta_{tr}-\delta_{pl}$	Δ
Okt. 12	−33.6ˢ	+3.5ˢ	−193″	− 9″
14	−30.1	+4.4	−202	− 4
16	−25.7	+5.1	−206	+ 2
18	−20.6	+5.8	−204	+ 8
20	−14.8	+6.2	−196	+14
22	− 8.6	+6.4	−182	+19
24	− 2.2	+6.5	−163	+23
26	+ 4.3	+6.4	−140	+28
28	+10.7	+6.1	−112	+31
30	+16.8	+5.6	− 81	+32
Nov. 1	+22.4	+5.0	− 49	+34
3	+27.4	+4.4	− 15	+34
5	+31.8	+3.5	+ 19	+34
7	+35.3	+2.6	+ 53	+32
9	+37.9	+1.6	+ 85	+30
11	+39.5	+0.6	+115	+28
13	+40.1	−0.3	+143	+24
15	+39.8	−1.4	+167	+19
17	+38.4	−2.3	+186	+15
19	+36.1	−3.2	+201	+10
21	+32.9	−4.0	+211	+ 5
23	+28.9	−4.6	+216	0
25	+24.3	−5.2	+216	− 6
27	+19.1	−5.6	+210	−10
29	+13.5	−5.9	+200	−15
Dez. 1	+ 7.6	−6.1	+185	−19
3	+ 1.5	−6.1	+166	−23
5	− 4.6	−6.0	+143	−27
7	−10.6	−5.7	+116	−30
9	−16.3	−5.2	+ 86	−31
11	−21.5	−4.6	+ 55	−32
13	−26.1	−4.0	+ 23	−33
15	−30.1	−3.2	− 10	−32
17	−33.3	−2.3	− 42	−31
19	−35.6	−1.3	− 73	−29
21	−36.9	−0.4	−102	−26
23	−37.3	+0.6	−128	−22
25	−36.7	+1.6	−150	−18
27	−35.1	+2.6	−168	−14
29	−32.5	+3.4	−182	− 8
31	−29.1		−190	

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h			h			h			h			h
Jan.	0	2.5	Febr.	14	8.4	Aug.	8	15.1	Sept.	22	20.7	Nov.	7	2.2
	1	1.1		15	7.0		9	13.7		23	19.3		8	0.8
	1	23.7		16	5.6		10	12.4		24	17.9		8	23.4
	2	22.3		17	4.2		11	11.0		25	16.5		9	22.0
	3	20.9		18	2.9		12	9.6		26	15.1		10	20.6
	4	19.6		19	1.5		13	8.2		27	13.8		11	19.2
	5	18.2		20	0.1		14	6.9		28	12.4		12	17.8
	6	16.8		20	22.7		15	5.5		29	11.0		13	16.4
	7	15.4					16	4.1		30	9.6		14	15.1
	8	14.1					17	2.7	Okt.	1	8.2		15	13.7
	9	12.7			h		18	1.3		2	6.8		16	12.3
	10	11.3	Juli	4	18.2		19	0.0		3	5.4		17	10.9
	11	9.9		5	16.8		19	22.6		4	4.0		18	9.6
	12	8.5		6	15.4		20	21.2		5	2.7		19	8.2
	13	7.2		7	14.0		21	19.8		6	1.3		20	6.8
	14	5.8		8	12.6		22	18.4		6	23.9		21	5.4
	15	4.4		9	11.3		23	17.0		7	22.5		22	4.0
	16	3.0		10	9.9		24	15.6		8	21.1		23	2.7
	17	1.7		11	8.5		25	14.2		9	19.7		24	1.3
	18	0.3		12	7.1		26	12.9		10	18.3		24	23.9
	18	22.9		13	5.8		27	11.5		11	16.9		25	22.5
	19	21.5		14	4.4		28	10.1		12	15.5		26	21.1
	20	20.2		15	3.0		29	8.7		13	14.2		27	19.7
	21	18.8		16	1.6		30	7.3		14	12.8		28	18.3
	22	17.4		17	0.2		31	5.9		15	11.4		29	16.9
	23	16.0		17	22.9	Sept.	1	4.5		16	10.0		30	15.6
	24	14.7		18	21.5		2	3.1		17	8.7	Dez.	1	14.2
	25	13.3		19	20.1		3	1.8		18	7.3		2	12.8
	26	11.9		20	18.7		4	0.4		19	5.9		3	11.4
	27	10.5		21	17.3		4	23.0		20	4.5		4	10.0
	28	9.1		22	15.9		5	21.6		21	3.1		5	8.6
	29	7.8		23	14.6		6	20.2		22	1.8		6	7.2
	30	6.4		24	13.2		7	18.8		23	0.4		7	5.8
	31	5.0		25	11.8		8	17.4		23	23.0		8	4.5
Febr.	1	3.6		26	10.4		9	16.0		24	21.6		9	3.1
	2	2.3		27	9.1		10	14.6		25	20.2		10	1.7
	3	0.9		28	7.7		11	13.3		26	18.8		11	0.3
	3	23.5		29	6.3		12	11.9		27	17.4		11	22.9
	4	22.1		30	4.9		13	10.5		28	16.0		12	21.5
	5	20.8		31	3.6		14	9.1		29	14.7		13	20.1
	6	19.4	Aug.	1	2.2		15	7.8		30	13.3		14	18.7
	7	18.0		2	0.8		16	6.4		31	11.9		15	17.3
	8	16.6		2	23.4		17	5.0	Nov.	1	10.5		16	16.0
	9	15.3		3	22.1		18	3.6		2	9.1		17	14.6
	10	13.9		4	20.7		19	2.2		3	7.7		18	13.2
	11	12.5		5	19.3		20	0.9		4	6.3		19	11.8
	12	11.1		6	17.9		20	23.5		5	4.9		20	10.5
	13	9.7		7	16.5		21	22.1		6	3.6		21	9.1

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h
Dez.	22	7.7
	23	6.3
	24	4.9
	25	3.6
	26	2.2
	27	0.8
	27	23.4
	28	22.0
	29	20.6
	30	19.2
	31	17.8
	32	16.5

ENCELADUS

		h
Jan.	0	12.7
	1	21.6
	3	6.4
	4	15.3
	6	0.2
	7	9.1
	8	18.0
	10	2.9
	11	11.8
	12	20.7
	14	5.6
	15	14.5
	16	23.4
	18	8.3
	19	17.1
	21	2.0
	22	10.9
	23	19.8
	25	4.7
	26	13.6
	27	22.5
	29	7.4
	30	16.3
Febr.	1	1.2
	2	10.1
	3	19.0
	5	3.8
	6	12.7
	7	21.6
	9	6.5
	10	15.4

ENCELADUS

		h
Febr.	12	0.3
	13	9.2
	14	18.1
	16	3.0
	17	11.9
	18	20.8
	20	5.7

		h
Juli	4	22.8
	6	7.7
	7	16.6
	9	1.5
	10	10.4
	11	19.3
	13	4.2
	14	13.0
	15	21.9
	17	6.8
	18	15.7
	20	0.6
	21	9.5
	22	18.4
	24	3.3
	25	12.1
	26	21.0
	28	5.9
	29	14.8
	30	23.7
Aug.	1	8.6
	2	17.4
	4	2.3
	5	11.2
	6	20.1
	8	5.0
	9	13.9
	10	22.8
	12	7.7
	13	16.6
	15	1.4
	16	10.3
	17	19.2
	19	4.1
	20	13.0
	21	21.9
	23	6.8

ENCELADUS

		h
Aug.	24	15.7
	26	0.6
	27	9.4
	28	18.3
	30	3.2
	31	12.1
Sept.	1	21.0
	3	5.9
	4	14.7
	5	23.6
	7	8.5
	8	17.4
	10	2.2
	11	11.1
	12	20.0
	14	4.9
	15	13.7
	16	22.6
	18	7.5
	19	16.4
	21	1.2
	22	10.1
	23	19.0
	25	3.8
	26	12.7
	27	21.6
	29	6.5
	30	15.3
Okt.	2	0.2
	3	9.1
	4	18.0
	6	2.8
	7	11.7
	8	20.6
	10	5.5
	11	14.3
	12	23.2
	14	8.1
	15	17.0
	17	1.8
	18	10.7
	19	19.6
	21	4.5
	22	13.3
	23	22.2
	25	7.1
	26	16.0
	28	0.9

ENCELADUS

		h
Okt.	29	9.7
	30	18.6
Nov.	1	3.5
	2	12.4
	3	21.3
	5	6.2
	6	15.0
	7	23.9
	9	8.8
	10	17.7
	12	2.5
	13	11.4
	14	20.3
	16	5.2
	17	14.0
	18	22.9
	20	7.8
	21	16.7
	23	1.5
	24	10.4
	25	19.3
	27	4.2
	28	13.0
	29	21.9
Dez.	1	6.8
	2	15.7
	4	0.5
	5	9.4
	6	18.3
	8	3.2
	9	12.0
	10	20.9
	12	5.8
	13	14.7
	14	23.6
	16	8.4
	17	17.3
	19	2.2
	20	11.1
	21	20.0
	23	4.9
	24	13.7
	25	22.6
	27	7.5
	28	16.4
	30	1.3
	31	10.2
	32	19.1

TETHYS

		h
Jan.	1	20.7
	3	18.0
	5	15.3
	7	12.7
	9	10.0
	11	7.3
	13	4.6
	15	1.9
	16	23.2
	18	20.5
	20	17.9
	22	15.2
	24	12.5
	26	9.8
	28	7.1
	30	4.5
Febr.	1	1.8
	2	23.1
	4	20.5
	6	17.8
	8	15.1
	10	12.5
	12	9.8
	14	7.1
	16	4.5
	18	1.8
	19	23.1

		h
Juli	4	23.1
	6	20.4
	8	17.8
	10	15.1
	12	12.4
	14	9.7
	16	7.0
	18	4.4
	20	1.7
	21	23.0
	23	20.3
	25	17.6
	27	14.9
	29	12.3
	31	9.6
Aug.	2	6.9
	4	4.2

Östliche Elongationen (in Welt-Zeit)

TETHYS

Monat	Tag	h
Aug.	6	1.5
	7	22.8
	9	20.1
	11	17.4
	13	14.7
	15	12.1
	17	9.4
	19	6.7
	21	4.0
	23	1.3
	24	22.6
	26	19.9
	28	17.2
	30	14.5
Sept.	1	11.8
	3	9.1
	5	6.4
	7	3.7
	9	1.0
	10	22.3
	12	19.6
	14	16.9
	16	14.2
	18	11.5
	20	8.8
	22	6.1
	24	3.4
	26	0.7
	27	22.0
	29	19.3
Okt.	1	16.5
	3	13.8
	5	11.1
	7	8.4
	9	5.7
	11	3.0
	13	0.3
	14	21.6
	16	18.9
	18	16.1
	20	13.4
	22	10.7
	24	8.0
	26	5.3
	28	2.6
	29	23.9
	31	21.2
Nov.	2	18.4

TETHYS

Monat	Tag	h
Nov.	4	15.7
	6	13.0
	8	10.3
	10	7.6
	12	4.9
	14	2.2
	15	23.5
	17	20.8
	19	18.0
	21	15.3
	23	12.6
	25	9.9
	27	7.2
	29	4.5
Dez.	1	1.8
	2	23.1
	4	20.4
	6	17.7
	8	15.0
	10	12.3
	12	9.6
	14	6.9
	16	4.2
	18	1.5
	19	22.8
	21	20.1
	23	17.4
	25	14.7
	27	12.0
	29	9.3
	31	6.6
	33	3.9

DIONE

Monat	Tag	h
Jan.	0	14.4
	3	8.1
	6	1.7
	8	19.4
	11	13.1
	14	6.8
	17	0.5
	19	18.2
	22	12.0

DIONE

Monat	Tag	h
Jan.	25	5.7
	27	23.4
	30	17.1
Febr.	2	10.8
	5	4.5
	7	22.3
	10	16.0
	13	9.7
	16	3.4
	18	21.2
Juli	4	20.3
	7	14.0
	10	7.7
	13	1.4
	15	19.2
	18	12.9
	21	6.6
	24	0.3
	26	18.0
	29	11.7
Aug.	1	5.4
	3	23.1
	6	16.8
	9	10.5
	12	4.2
	14	21.9
	17	15.6
	20	9.3
	23	3.0
	25	20.7
	28	14.4
	31	8.0
Sept.	3	1.7
	5	19.3
	8	13.0
	11	6.7
	14	0.4
	16	18.0
	19	11.7
	22	5.4
	24	23.0
	27	16.7
	30	10.3

DIONE

Monat	Tag	h
Okt.	3	4.0
	5	21.6
	8	15.3
	11	8.9
	14	2.6
	16	20.2
	19	13.9
	22	7.5
	25	1.2
	27	18.8
	30	12.5
Nov.	2	6.1
	4	23.8
	7	17.4
	10	11.1
	13	4.7
	15	22.4
	18	16.0
	21	9.7
	24	3.3
	26	21.0
	29	14.6
Dez.	2	8.3
	5	1.9
	7	19.6
	10	13.2
	13	6.9
	16	0.6
	18	18.2
	21	11.9
	24	5.5
	26	23.2
	29	16.9
	32	10.6

RHEA

Monat	Tag	h
Jan.	1	6.8
	5	19.3
	10	7.7
	14	20.2
	19	8.6
	23	21.1
	28	9.6
Febr.	1	22.1
	6	10.6

RHEA

Monat	Tag	h
Febr.	10	23.1
	15	11.6
	20	0.2
Juli	4	17.4
	9	5.9
	13	18.4
	18	6.9
	22	19.4
	27	7.9
	31	20.4
Aug.	5	8.9
	9	21.3
	14	9.8
	18	22.2
	23	10.6
	27	23.0
Sept.	1	11.5
	5	23.9
	10	12.3
	15	0.7
	19	13.0
	24	1.4
	28	13.7
Okt.	3	2.1
	7	14.4
	12	2.7
	16	15.0
	21	3.3
	25	15.6
	30	3.9
Nov.	3	16.2
	8	4.6
	12	16.9
	17	5.2
	21	17.5
	26	5.8
	30	18.1
Dez.	5	6.5
	9	18.8
	14	7.2
	18	19.6
	23	7.9
	27	20.3
	32	8.7

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN

Monat	Tag	h	Ereignis
Jan.	2	7.4	Ob. Konj.
	6	10.0	Östl. El.
	10	13.8	Unt. Konj.
	14	10.7	Westl. El.
	18	6.5	Ob. Konj.
	22	9.2	Östl. El.
	26	13.1	Unt. Konj.
	30	10.1	Westl. El.
Febr.	3	6.0	Ob. Konj.
	7	8.9	Östl. El.
	11	12.9	Unt. Konj.
	15	9.9	Westl. El.
	19	5.9	Ob. Konj.
Juli	4	18.0	Unt. Konj.
	8	14.1	Westl. El.
	12	11.1	Ob. Konj.
	16	15.0	Östl. El.
	20	17.9	Unt. Konj.
	24	13.8	Westl. El.
	28	10.8	Ob. Konj.
Aug.	1	14.7	Östl. El.
	5	17.5	Unt. Konj.
	9	13.3	Westl. El.
	13	10.2	Ob. Konj.
	17	14.0	Östl. El.
	21	16.5	Unt. Konj.
	25	12.2	Westl. El.
	29	9.0	Ob. Konj.
Sept.	2	12.7	Östl. El.
	6	15.1	Unt. Konj.
	10	10.7	Westl. El.
	14	7.4	Ob. Konj.
	18	10.9	Östl. El.
	22	13.3	Unt. Konj.
	26	8.8	Westl. El.
	30	5.3	Ob. Konj.
Okt.	4	8.7	Östl. El.
	8	11.0	Unt. Konj.
	12	6.5	Westl. El.
	16	2.8	Ob. Konj.
	20	6.1	Östl. El.
	24	8.5	Unt. Konj.
Okt.	28	3.9	Westl. El.
Nov.	1	0.2	Ob. Konj.
	5	3.5	Östl. El.
	9	5.8	Unt. Konj.
	13	1.3	Westl. El.
	16	21.5	Ob. Konj.
	21	0.7	Östl. El.
	25	3.2	Unt. Konj.
	28	22.8	Westl. El.
Dez.	2	19.0	Ob. Konj.
	6	22.2	Östl. El.
	11	0.9	Unt. Konj.
	14	20.6	Westl. El.
	18	16.8	Ob. Konj.
	22	20.0	Östl. El.
	26	22.9	Unt. Konj.
	30	18.8	Westl. El.
	34	15.1	Ob. Konj.

HYPERION

Monat	Tag	h	Ereignis
Jan.	3	21.4	Östl. El.
	9	18.0	Unt. Konj.
	15	19.4	Westl. El.
	20	12.5	Ob. Konj.
	25	2.5	Östl. El.
	31	0.3	Unt. Konj.
Febr.	6	1.6	Westl. El.
	10	18.2	Ob. Konj.
	15	8.9	Östl. El.
	21	8.2	Unt. Konj.
Juli	4	22.8	Westl. El.
	9	9.8	Ob. Konj.
	14	7.0	Östl. El.
	20	15.7	Unt. Konj.
	26	9.4	Westl. El.
	30	19.7	Ob. Konj.
Aug.	4	17.5	Östl. El.
	11	2.7	Unt. Konj.
	16	19.4	Westl. El.
Aug.	21	5.1	Ob. Konj.
	26	3.3	Östl. El.
Sept.	1	12.6	Unt. Konj.
	7	4.5	Westl. El.
	11	13.8	Ob. Konj.
	16	12.0	Östl. El.
	22	21.2	Unt. Konj.
	28	12.8	Westl. El.
Okt.	2	21.7	Ob. Konj.
	7	19.6	Östl. El.
	14	4.6	Unt. Konj.
	19	20.2	Westl. El.
	24	5.0	Ob. Konj.
	29	2.5	Östl. El.
Nov.	4	11.3	Unt. Konj.
	10	3.1	Westl. El.
	14	12.0	Ob. Konj.
	19	9.1	Östl. El.
	25	17.8	Unt. Konj.
Dez.	1	9.9	Westl. El.
	5	18.9	Ob. Konj.
	10	15.9	Östl. El.
	17	0.7	Unt. Konj.
	22	17.1	Westl. El.
	27	2.2	Ob. Konj.
	31	23.4	Östl. El.

JAPETUS

Monat	Tag	h	Ereignis
Jan.	18	17.1	Unt. Konj.
Febr.	8	4.3	Westl. El.
Juli	19	16.4	Westl. El.
Aug.	7	17.5	Ob. Konj.
	27	13.9	Östl. El.
Sept.	17	8.2	Unt. Konj.
Okt.	6	23.7	Westl. El.
	25	12.9	Ob. Konj.
Nov.	13	21.5	Östl. El.
Dez.	4	9.6	Unt. Konj.
	24	4.0	Westl. El.

Welt-Zeit 1940	h	
Jan. 1	6	♆ ☌ ☾
2	6	☉ in Erdnähe
7	15	♂ ☌ ♃, ♂ 1° 10′ N.
8	10	☿ ☌ ☾
12	13	♀ ☌ ☾
13	10	☿ im Aphel
15	22	♃ ☌ ☾
16	7	♂ ☌ ☾
17	17	♄ ☌ ☾
19	11	♅ ☌ ☾
23	10	♃ im Perihel
26	23	♅ stationär in AR.
28	12	♆ ☌ ☾
31	19	☿ obere ☌ ☉
Febr. 9	2	☿ ☌ ☾
11	21	♀ ☌ ☾
12	15	♃ ☌ ☾
13	8	♂ ☌ ♄, ♂ 2° 59′ N.
14	3	♄ ☌ ☾
14	4	♂ ☌ ☾
15	19	♅ ☌ ☾
20	22	♀ ☌ ♃, ♀ 1′ 0° N.
24	21	♆ ☌ ☾
26	9	☿ im Perihel
28	11	☿ gr. östl. El. 18° 9′
März 5	17	☿ stationär in AR.
8	14	♀ ☌ ♄, ♀ 3° 22′ N.
9	23	☿ ☌ ☾
11	8	♃ ☌ ☾
12	14	♄ ☌ ☾
12	23	♀ ☌ ☾
14	0	♂ ☌ ☾
14	3	♅ ☌ ☾
14	21	♆ ☍ ☉
15	15	☿ untere ☌ ☉
16	18	♂ ☌ ♅, ♂ 1° 6′ N.
20	18	Frühlingsanfang
23	8	♆ ☌ ☾
26	14	♀ ☌ ♅, ♀ 2° 31′ N.
28	0	☿ stationär in AR.
29	1	♀ im Perihel
April 5	13	☿ ☌ ☾
7	—	☉ ringf. Finsternis
April 8	3	♃ ☌ ☾
9	2	♄ ☌ ☾
10	9	☿ im Aphel
10	11	♅ ☌ ☾
11	0	♀ ☌ ♂, ♀ 2° 11′ N.
11	19	♂ ☌ ☾
11	19	♀ ☌ ☾
11	22	♃ ☌ ☉
12	9	☿ gr. westl. El. 27° 40′
17	12	♀ gr. östl. El. 45° 44′
19	17	♆ ☌ ☾
24	18	♄ ☌ ☉
Mai 5	5	☿ ☌ ♃
5	23	♃ ☌ ☾
6	1	☿ ☌ ☾
6	15	♄ ☌ ☾
7	20	♅ ☌ ☾
10	9	☿ ☌ ♄, ☿ 0° 42′ N.
10	13	♂ ☌ ☾
11	4	♀ ☌ ☾
12	22	♅ ☌ ☉
17	0	♆ ☌ ☾
18	1	☿ ☌ ♅, ☿ 0° 2′ S.
20	16	♀ im größten Glanze
21	20	☿ obere ☌ ☉
24	9	☿ im Perihel
Juni 2	18	♃ ☌ ☾
3	5	♄ ☌ ☾
3	22	♆ stationär in AR.
4	7	♅ ☌ ☾
5	0	♀ stationär in AR.
7	6	♀ ☌ ♂, ♀ 0° 22′ N.
7	13	☿ ☌ ☾
8	5	♀ ☌ ☾
8	6	♂ ☌ ☾
12	2	☿ ☌ ♀, ☿ 1° 24′ N.
13	6	♆ ☌ ☾
17	1	☿ ☌ ♂, ☿ 0° 26′ N.
21	14	Sommersanfang
24	14	☿ gr. östl. El. 25° 18′
26	21	♀ untere ☌ ☉
30	13	♃ ☌ ☾
30	19	♄ ☌ ☾

Welt-Zeit 1940		h	
Juli	1	18	♅ ☌ ☾
	4	10	☉ in Erdferne
	4	13	♀ ☌ ☾
	6	22	♂ ☌ ☾
	7	2	☿ ☌ ☾
	7	8	☿ im Aphel
	7	19	☿ stationär in AR.
	10	0	☿ ☌ ♂, ☿ 4° 24′ S.
	10	12	♆ ☌ ☾
	18	13	♀ stationär in AR.
	19	13	♀ im Aphel
	22	5	☿ untere ☌ ☉
	28	5	♃ ☌ ☾
	28	7	♄ ☌ ☾
	29	4	♅ ☌ ☾
	31	21	♀ ☌ ☾
Aug.	1	9	☿ stationär in AR.
	2	16	♀ im größten Glanze
	2	17	☿ ☌ ☾
	4	14	♂ ☌ ☾
	6	20	♆ ☌ ☾
	10	10	☿ gr. westl. El. 18° 57′
	15	13	♃ ☌ ♄, ♃ 1° 15′ N.
	20	8	☿ im Perihel
	24	16	♄ ☌ ☾
	24	17	♃ ☌ ☾
	25	13	♅ ☌ ☾
	26	1	♂ im Aphel
	27	23	♄ stationär in AR.
	29	20	♀ ☌ ☾
	30	9	♂ ☌ ☉
Sept.	1	5	♅ stationär in AR.
	2	3	☿ ☌ ☾
	2	5	♂ ☌ ☾
	2	23	☿ ☌ ♂, ☿ 0° 43′ N.
	3	6	♆ ☌ ☾
	4	12	☿ obere ☌ ☉
	4	20	♃ stationär in AR.
	5	13	♀ gr. westl. El. 45° 57′
	11	15	☿ ☌ ♆, ☿ 0° 2′ N.
	18	8	♆ ☌ ☉
	20	21	♄ ☌ ☾
	20	23	♃ ☌ ☾
	21	19	♅ ☌ ☾
	23	5	Herbstanfang
	28	10	♀ ☌ ☾
	28	23	♂ ☌ ♆, ♂ 0° 13′ S.
Sept.	30	19	♆ ☌ ☾
	30	20	♂ ☌ ☾
Okt.	1	—	☉ totale Finsternis
	2	20	☿ ☌ ☾
	3	7	☿ im Aphel
	11	23	♃ ☌ ♄, ♃ 1° 17′ N.
	18	0	♃ ☌ ☾
	18	0	♄ ☌ ☾
	19	0	♅ ☌ ☾
	20	16	☿ gr. östl. El. 24° 30′
	28	4	♀ ☌ ☾
	28	7	♆ ☌ ☾
	29	12	♂ ☌ ☾
	29	21	♀ ☌ ♆, ♀ 0° 11′ N.
Nov.	1	5	☿ ☌ ☾
	1	6	☿ stationär in AR.
	3	4	♃ ☍ ☉
	3	21	♄ ☍ ☉
	8	22	♀ im Perihel
	11	23	☿ untere ☌ ☉, Merkurdurchgang
	13	23	♃ ☌ ☾
	14	2	♄ ☌ ☾
	15	4	♅ ☌ ☾
	16	7	☿ im Perihel
	16	15	♅ ☍ ☉
	21	0	☿ stationär in AR.
	24	17	♆ ☌ ☾
	26	22	♀ ☌ ☾
	27	3	♂ ☌ ☾
	27	22	☿ ☌ ☾
	28	22	☿ gr. westl. El. 20° 11′
Dez.	2	12	♀ ☌ ♂, ♀ 1° 17′ N.
	11	1	♃ ☌ ☾
	11	6	♄ ☌ ☾
	12	9	♅ ☌ ☾
	21	23	♆ ☌ ☾
	22	0	Wintersanfang
	25	18	♂ ☌ ☾
	26	18	♀ ☌ ☾
	28	6	☿ ☌ ☾
	30	7	☿ im Aphel
	30	15	♆ stationär in AR.
	31	14	♃ stationär in AR.

Präzession in Rektaszension (p_α) und Deklination (p_δ)

	p_α													p_δ
α \ δ	+60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	
h	s	s	s	s	s	s	s	s	s		s	s	s	"
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	log π	Π	ε
1900.0	3ˢ.07234	20".0468	50".2564	9.67309	173° 57'.06	23° 27' 8".26
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.57
1915.0	3.07262	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.54
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.20
1935.0	3.07299	20.0439	50.2642	9.67287	174 16.23	23 26 51.86
1940.0	3.07308	20.0434	50.2653	9.67284	174 18.97	23 26 49.52
1945.0	3.07317	20.0430	50.2664	9.67281	174 21.71	23 26 47.17
1950.0	3.07327	20.0426	50.2675	9.67278	174 24.45	23 26 44.83

Länge λ	Präzession in Länge p_λ — Breite β: 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Länge λ	Präz. in Br. p_β — Präzession p_β	
0°	50.268″	.259″	.251″	.243″	.235″	50.227″	.218″	.210″	.202″	.193″	0°	+0.046″	81
10	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	10	+0.127	76
20	.268	.260	.253	.245	.238	.230	.223	.215	.208	.200	20	+0.203	71
30	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	30	+0.274	62
40	50.268	.262	.256	.250	.244	50.239	.233	.227	.221	.215	40	+0.336	52
50	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	50	+0.388	41
60	.268	.264	.261	.257	.254	.250	.247	.244	.240	.237	60	+0.429	27
70	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	70	+0.456	13
80	50.268	.267	.266	.266	.265	50.264	.264	.263	.262	.262	80	+0.469	1
90	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	90	+0.468	15
100	.268	.270	.272	.274	.276	.279	.281	.283	.285	.288	100	+0.453	28
110	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	110	+0.425	42
120	50.268	.272	.277	.282	.287	50.291	.296	.301	.306	.311	120	+0.383	54
130	.268	.273	.279	.285	.291	.297	.303	.309	.315	.321	130	+0.329	63
140	.268	.274	.281	.288	.295	.301	.308	.315	.322	.329	140	+0.266	71
150	.268	.275	.282	.290	.297	.305	.313	.320	.328	.335	150	+0.195	78
160	50.268	.275	.283	.291	.299	50.307	.315	.323	.332	.340	160	+0.117	81
170	.268	.276	.284	.292	.300	.309	.317	.325	.333	.342	170	+0.036	82
180	.268	.276	.284	.292	.300	.308	.317	.325	.333	.342	180	−0.046	81
190	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	190	−0.127	76
200	50.268	.275	.282	.290	.297	50.305	.312	.320	.327	.335	200	−0.203	71
210	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	210	−0.274	62
220	.268	.273	.279	.285	.291	.296	.302	.308	.314	.320	220	−0.336	52
230	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	230	−0.388	41
240	50.268	.271	.274	.278	.281	50.285	.288	.291	.295	.298	240	−0.429	27
250	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	250	−0.456	13
260	.268	.268	.269	.269	.270	.271	.271	.272	.273	.273	260	−0.469	1
270	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	270	−0.468	15
280	50.268	.265	.263	.261	.259	50.256	.254	.252	.250	.247	280	−0.453	28
290	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	290	−0.425	42
300	.268	.263	.258	.253	.248	.244	.239	.234	.229	.224	300	−0.383	54
310	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	310	−0.329	63
320	50.268	.261	.254	.247	.240	50.234	.227	.220	.213	.206	320	−0.266	71
330	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	330	−0.195	78
340	.268	.260	.252	.244	.236	.228	.220	.212	.203	.195	340	−0.117	81
350	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	350	−0.036	82
360	50.268	.259	.251	.243	.235	50.227	.218	.210	.202	.193	360	+0.046	

Präzession in Länge p_λ											Präz. in Br. p_β		
Länge	Breite β										Länge	Präzession	
λ	0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	λ	p_β	
0°	50″.268	″.276	″.284	″.292	″.300	50″.308	″.317	″.325	″.333	″.342	0°	+0″.046	81
10	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	10	+0.127	76
20	.268	.275	.282	.290	.297	.305	.312	.320	.327	.335	20	+0.203	71
30	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	30	+0.274	62
40	50.268	.273	.279	.285	.291	50.296	.302	.308	.314	.320	40	+0.336	52
50	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	50	+0.388	41
60	.268	.271	.274	.278	.281	.285	.288	.291	.295	.298	60	+0.429	27
70	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	70	+0.456	13
80	50.268	.268	.269	.269	.270	50.271	.271	.272	.273	.273	80	+0.469	1
90	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	90	+0.468	15
100	.268	.265	.263	.261	.259	.256	.254	.252	.250	.247	100	+0.453	28
110	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	110	+0.425	42
120	50.268	.263	.258	.253	.248	50.244	.239	.234	.229	.224	120	+0.383	54
130	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	130	+0.329	63
140	.268	.261	.254	.247	.240	.234	.227	.220	.216	.206	140	+0.266	71
150	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	150	+0.195	78
160	50.268	.260	.252	.244	.236	50.228	.220	.212	.203	.195	160	+0.117	81
170	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	170	+0.036	82
180	.268	.259	.251	.243	.235	.227	.218	.210	.202	.193	180	−0.046	81
190	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	190	−0.127	76
200	50.268	.260	.253	.245	.238	50.230	.223	.215	.208	.200	200	−0.203	71
210	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	210	−0.274	62
220	.268	.262	.256	.250	.244	.239	.233	.227	.221	.215	220	−0.336	52
230	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	230	−0.388	41
240	50.268	.264	.261	.257	.254	50.250	.247	.244	.240	.237	240	−0.429	27
250	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	250	−0.456	13
260	.268	.267	.266	.266	.265	.264	.264	.263	.262	.262	260	−0.469	1
270	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	270	−0.468	15
280	50.268	.270	.272	.274	.276	50.279	.281	.283	.285	.288	280	−0.453	28
290	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	290	−0.425	42
300	.268	.272	.277	.282	.287	.291	.296	.301	.306	.311	300	−0.383	54
310	.268	.273	.279	.285	.291	.297	.303	.309	.315	.321	310	−0.329	63
320	50.268	.274	.281	.288	.295	50.301	.308	.315	.322	.329	320	−0.266	71
330	.268	.275	.282	.290	.297	.305	.313	.320	.328	.335	330	−0.195	78
340	.268	.275	.283	.291	.299	.307	.315	.323	.332	.340	340	−0.117	81
350	.268	.276	.284	.292	.300	.309	.317	.325	.333	.342	350	−0.036	82
360	50.268	.276	.284	.292	.300	50.308	.317	.325	.333	.342	360	+0.046	

Verwandlung von mittlerer Zeit in Sternzeit

Red.	0m	1m	2m	3m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittleren Zeit zu addieren.

Red.	0^m	1^m	2^m	3^m
s	h m s	h m s	h m s	h m s
0	0 0 0	6 6 15	12 12 29	18 18 44
1	0 6 6	6 12 21	12 18 35	18 24 50
2	0 12 12	6 18 27	12 24 42	18 30 56
3	0 18 19	6 24 33	12 30 48	18 37 2
4	0 24 25	6 30 40	12 36 54	18 43 9
5	0 30 31	6 36 46	12 43 0	18 49 15
6	0 36 37	6 42 52	12 49 7	18 55 21
7	0 42 44	6 48 58	12 55 13	19 1 27
8	0 48 50	6 55 4	13 1 19	19 7 34
9	0 54 56	7 1 11	13 7 25	19 13 40
10	1 1 2	7 7 17	13 13 31	19 19 46
11	1 7 9	7 13 23	13 19 38	19 25 52
12	1 13 15	7 19 29	13 25 44	19 31 59
13	1 19 21	7 25 36	13 31 50	19 38 5
14	1 25 27	7 31 42	13 37 56	19 44 11
15	1 31 34	7 37 48	13 44 3	19 50 17
16	1 37 40	7 43 54	13 50 9	19 56 23
17	1 43 46	7 50 1	13 56 15	20 2 30
18	1 49 52	7 56 7	14 2 21	20 8 36
19	1 55 59	8 2 13	14 8 28	20 14 42
20	2 2 5	8 8 19	14 14 34	20 20 48
21	2 8 11	8 14 26	14 20 40	20 26 55
22	2 14 17	8 20 32	14 26 46	20 33 1
23	2 20 24	8 26 38	14 32 53	20 39 7
24	2 26 30	8 32 44	14 38 59	20 45 13
25	2 32 36	8 38 51	14 45 5	20 51 20
26	2 38 42	8 44 57	14 51 11	20 57 26
27	2 44 49	8 51 3	14 57 18	21 3 32
28	2 50 55	8 57 9	15 3 24	21 9 38
29	2 57 1	9 3 16	15 9 30	21 15 45
30	3 3 7	9 9 22	15 15 36	21 21 51
31	3 9 14	9 15 28	15 21 43	21 27 57
32	3 15 20	9 21 34	15 27 49	21 34 3
33	3 21 26	9 27 41	15 33 55	21 40 10
34	3 27 32	9 33 47	15 40 1	21 46 16
35	3 33 38	9 39 53	15 46 8	21 52 22
36	3 39 45	9 45 59	15 52 14	21 58 28
37	3 45 51	9 52 5	15 58 20	22 4 35
38	3 51 57	9 58 12	16 4 26	22 10 41
39	3 58 3	10 4 18	16 10 33	22 16 47
40	4 4 10	10 10 24	16 16 39	22 22 53
41	4 10 16	10 16 30	16 22 45	22 29 0
42	4 16 22	10 22 37	16 28 51	22 35 6
43	4 22 28	10 28 43	16 34 57	22 41 12
44	4 28 35	10 34 49	16 41 4	22 47 18
45	4 34 41	10 40 55	16 47 10	22 53 24
46	4 40 47	10 47 2	16 53 16	22 59 31
47	4 46 53	10 53 8	16 59 22	23 5 37
48	4 53 0	10 59 14	17 5 29	23 11 43
49	4 59 6	11 5 20	17 11 35	23 17 49
50	5 5 12	11 11 27	17 17 41	23 23 56
51	5 11 18	11 17 33	17 23 47	23 30 2
52	5 17 25	11 23 39	17 29 54	23 36 8
53	5 23 31	11 29 45	17 36 0	23 42 14
54	5 29 37	11 35 52	17 42 6	23 48 21
55	5 35 43	11 41 58	17 48 12	23 54 27
56	5 41 50	11 48 4	17 54 19	24 0 33
57	5 47 56	11 54 10	18 0 25	24 6 39
58	5 54 2	12 0 17	18 6 31	24 12 46
59	6 0 8	12 6 23	18 12 37	24 18 52

Red.		Red.	
s	m s	s	m s
0.00	0 0	0.50	3 3
0.01	0 4	0.51	3 7
0.02	0 7	0.52	3 10
0.03	0 11	0.53	3 14
0.04	0 15	0.54	3 18
0.05	0 18	0.55	3 21
0.06	0 22	0.56	3 25
0.07	0 26	0.57	3 29
0.08	0 29	0.58	3 32
0.09	0 33	0.59	3 36
0.10	0 37	0.60	3 40
0.11	0 40	0.61	3 43
0.12	0 44	0.62	3 47
0.13	0 48	0.63	3 51
0.14	0 51	0.64	3 54
0.15	0 55	0.65	3 58
0.16	0 59	0.66	4 2
0.17	1 2	0.67	4 5
0.18	1 6	0.68	4 9
0.19	1 10	0.69	4 13
0.20	1 13	0.70	4 16
0.21	1 17	0.71	4 20
0.22	1 21	0.72	4 24
0.23	1 24	0.73	4 27
0.24	1 28	0.74	4 31
0.25	1 32	0.75	4 35
0.26	1 35	0.76	4 38
0.27	1 39	0.77	4 42
0.28	1 43	0.78	4 46
0.29	1 46	0.79	4 49
0.30	1 50	0.80	4 53
0.31	1 54	0.81	4 57
0.32	1 57	0.82	5 0
0.33	2 1	0.83	5 4
0.34	2 5	0.84	5 8
0.35	2 8	0.85	5 11
0.36	2 12	0.86	5 15
0.37	2 16	0.87	5 19
0.38	2 19	0.88	5 22
0.39	2 23	0.89	5 26
0.40	2 26	0.90	5 30
0.41	2 30	0.91	5 33
0.42	2 34	0.92	5 37
0.43	2 37	0.93	5 41
0.44	2 41	0.94	5 44
0.45	2 45	0.95	5 48
0.46	2 48	0.96	5 52
0.47	2 52	0.97	5 55
0.48	2 56	0.98	5 59
0.49	2 59	0.99	6 3
0.50	3 3	1.00	6 6

Die Reduktion ist von der Sternzeit zu subtrahieren.

Red.	0^m	1^m	2^m	3^m	Red.
s	h m s	h m s	h m s	h m s	s
0	0 0 0.0	6 5 14.5	12 10 29.1	18 15 43.6	0
1	6 5.2	11 19.8	16 34.3	21 48.8	1
2	12 10.5	17 25.0	22 39.6	27 54.1	2
3	18 15.7	23 30.3	28 44.8	33 59.3	3
4	24 21.0	29 35.5	34 50.0	40 4.6	4
5	30 26.2	35 40.7	40 55.3	46 9.8	5
6	36 31.5	41 46.0	47 0.5	52 15.1	6
7	42 36.7	47 51.2	53 5.8	18 58 20.3	7
8	48 41.9	6 53 56.5	12 59 11.0	19 4 25.5	8
9	0 54 47.2	7 0 1.7	13 5 16.2	10 30.8	9
10	1 0 52.4	6 7.0	11 21.5	16 36.0	10
11	6 57.7	12 12.2	17 26.7	22 41.3	11
12	13 2.9	18 17.4	23 32.0	28 46.5	12
13	19 8.1	24 22.7	29 37.2	34 51.8	13
14	25 13.4	30 27.9	35 42.5	40 57.0	14
15	31 18.6	36 33.2	41 47.7	47 2.2	15
16	37 23.9	42 38.4	47 52.9	53 7.5	16
17	43 29.1	48 43.7	13 53 58.2	19 59 12.7	17
18	49 34.4	7 54 48.9	14 0 3.4	20 5 18.0	18
19	1 55 39.6	8 0 54.1	6 8.7	11 23.2	19
20	2 1 44.8	6 59.4	12 13.9	17 28.4	20
21	7 50.1	13 4.6	18 19.2	23 33.7	21
22	13 55.3	19 9.9	24 24.4	29 38.9	22
23	20 0.6	25 15.1	30 29.6	35 44.2	23
24	26 5.8	31 20.3	36 34.9	41 49.4	24
25	32 11.1	37 25.6	42 40.1	47 54.7	25
26	38 16.3	43 30.8	48 45.4	20 53 59.9	26
27	44 21.5	49 36.1	14 54 50.6	21 0 5.1	27
28	50 26.8	8 55 41.3	15 0 55.9	6 10.4	28
29	2 56 32.0	9 1 46.6	7 1.1	12 15.6	29
30	3 2 37.3	7 51.8	13 6.3	18 20.9	30
31	8 42.5	13 57.0	19 11.6	24 26.1	31
32	14 47.8	20 2.3	25 16.8	30 31.4	32
33	20 53.0	26 7.5	31 22.1	36 36.6	33
34	26 58.2	32 12.8	37 27.3	42 41.8	34
35	33 3.5	38 18.0	43 32.5	48 47.1	35
36	39 8.7	44 23.3	49 37.8	21 54 52.3	36
37	45 14.0	50 28.5	15 55 43.0	22 0 57.6	37
38	51 19.2	9 56 33.7	16 1 48.3	7 2.8	38
39	3 57 24.4	10 2 39.0	7 53.5	13 8.0	39
40	4 3 29.7	8 44.2	13 58.8	19 13.3	40
41	9 34.9	14 49.5	20 4.0	25 18.5	41
42	15 40.2	20 54.7	26 9.2	31 23.8	42
43	21 45.4	27 0.0	32 14.5	37 29.0	43
44	27 50.7	33 5.2	38 19.7	43 34.3	44
45	33 55.9	39 10.4	44 25.0	49 39.5	45
46	40 1.1	45 15.7	50 30.2	22 55 44.7	46
47	46 6.4	51 20.9	16 56 35.5	23 1 50.0	47
48	52 11.6	10 57 26.2	17 2 40.7	7 55.2	48
49	4 58 16.9	11 3 31.4	8 45.9	14 0.5	49
50	5 4 22.1	9 36.6	14 51.2	20 5.7	50
51	10 27.4	15 41.9	20 56.4	26 11.0	51
52	16 32.6	21 47.1	27 1.7	32 16.2	52
53	22 37.8	27 52.4	33 6.9	38 21.4	53
54	28 43.1	33 57.6	39 12.1	44 26.7	54
55	34 48.3	40 2.9	45 17.4	50 31.9	55
56	40 53.6	46 8.1	51 22.6	23 56 37.2	56
57	46 58.8	52 13.3	17 57 27.9	24 2 42.4	57
58	53 4.0	11 58 18.6	18 3 33.1	8 47.7	58
59	5 59 9.3	12 4 23.8	18 9 38.4	24 14 52.9	59

Die Reduktion ist zur mittleren Zeit zu addieren.

Red.		Red.	
s	m s	s	m s
0.00	0 0.0	0.50	3 2.6
01	3.7	51	6.3
02	7.3	52	9.9
03	11.0	53	13.6
04	14.6	54	17.2
0.05	18.3	0.55	20.9
06	21.9	56	24.5
07	25.6	57	28.2
08	29.2	58	31.8
09	32.9	59	35.5
0.10	36.5	0.60	39.1
11	40.2	61	42.8
12	43.8	62	46.5
13	47.5	63	50.1
14	51.1	64	53.8
0.15	54.8	0.65	3 57.4
16	0 58.4	66	4 1.1
17	1 2.1	67	4.7
18	5.7	68	8.4
19	9.4	69	12.0
0.20	13.0	0.70	15.7
21	16.7	71	19.3
22	20.4	72	23.0
23	24.0	73	26.6
24	27.7	74	30.3
0.25	31.3	0.75	33.9
26	35.0	76	37.6
27	38.6	77	41.2
28	42.3	78	44.9
29	45.9	79	48.5
0.30	49.6	0.80	52.2
31	53.2	81	55.8
32	1 56.9	82	4 59.5
33	2 0.5	83	5 3.2
34	4.2	84	6.8
0.35	7.8	0.85	10.5
36	11.5	86	14.1
37	15.1	87	17.8
38	18.8	88	21.4
39	22.4	89	25.1
0.40	26.1	0.90	28.7
41	29.7	91	32.4
42	33.4	92	36.0
43	37.1	93	39.7
44	40.7	94	43.3
0.45	44.4	0.95	47.0
46	48.0	96	50.6
47	51.7	97	54.3
48	55.3	98	5 57.9
0.49	2 59.0	0.99	6 1.6

Red.		Red.		Red.	
s	s	s	s	s	s
0.000		0.003		0.006	
	0.2		1.3		2.4
001		004		007	
	0.5		1.6		2.7
002		005		008	
	0.9		2.0		3.1
003		006		009	
	1.3		2.4		3.5
0.004		0.007		0.010	
					3.8

Red.	0^m	1^m	2^m	3^m	Red.
s	h m s	h m s	h m s	h m s	s
0	0 0 0.0	6 6 14.5	12 12 29.1	18 18 43.6	0
1	6 6.2	12 20.8	18 35.3	24 49.9	1
2	12 12.5	18 27.0	24 41.6	30 56.1	2
3	18 18.7	24 33.3	30 47.8	37 2.3	3
4	24 25.0	30 39.5	36 54.0	43 8.6	4
5	30 31.2	36 45.7	43 0.3	49 14.8	5
6	36 37.5	42 52.0	49 6.5	18 55 21.1	6
7	42 43.7	48 58.2	12 55 12.8	19 1 27.3	7
8	48 49.9	6 55 4.5	13 1 19.0	7 33.5	8
9	0 54 56.2	7 1 10.7	7 25.3	13 39.8	9
10	1 1 2.4	7 17.0	13 31.5	19 46.0	10
11	7 8.7	13 23.2	19 37.7	25 52.3	11
12	13 14.9	19 29.4	25 44.0	31 58.5	12
13	19 21.1	25 35.7	31 50.2	38 4.8	13
14	25 27.4	31 41.9	37 56.5	44 11.0	14
15	31 33.6	37 48.2	44 2.7	50 17.2	15
16	37 39.9	43 54.4	50 8.9	19 56 23.5	16
17	43 46.1	50 0.7	13 56 15.2	20 2 29.7	17
18	49 52.4	7 56 6.9	14 2 21.4	8 36.0	18
19	1 55 58.6	8 2 13.1	8 27.7	14 42.2	19
20	2 2 4.8	8 19.4	14 33.9	20 48.5	20
21	8 11.1	14 25.6	20 40.2	26 54.7	21
22	14 17.3	20 31.9	26 46.4	33 0.9	22
23	20 23.6	26 38.1	32 52.6	39 7.2	23
24	26 29.8	32 44.4	38 58.9	45 13.4	24
25	32 36.1	38 50.6	45 5.1	51 19.7	25
26	38 42.3	44 56.8	51 11.4	20 57 25.9	26
27	44 48.5	51 3.1	14 57 17.6	21 3 32.2	27
28	50 54.8	8 57 9.3	15 3 23.9	9 38.4	28
29	2 57 1.0	9 3 15.6	9 30.1	15 44.6	29
30	3 3 7.3	9 21.8	15 36.3	21 50.9	30
31	9 13.5	15 28.0	21 42.6	27 57.1	31
32	15 19.8	21 34.3	27 48.8	34 3.4	32
33	21 26.0	27 40.5	33 55.1	40 9.6	33
34	27 32.2	33 46.8	40 1.3	46 15.8	34
35	33 38.5	39 53.0	46 7.6	52 22.1	35
36	39 44.7	45 59.3	52 13.8	21 58 28.3	36
37	45 51.0	52 5.5	15 58 20.0	22 4 34.6	37
38	51 57.2	9 58 11.7	16 4 26.3	10 40.8	38
39	3 58 3.4	10 4 18.0	10 32.5	16 47.1	39
40	4 4 9.7	10 24.2	16 38.8	22 53.3	40
41	10 15.9	16 30.5	22 45.0	28 59.5	41
42	16 22.2	22 36.7	28 51.2	35 5.8	42
43	22 28.4	28 43.0	34 57.5	41 12.0	43
44	28 34.7	34 49.2	41 3.7	47 18.3	44
45	34 40.9	40 55.4	47 10.0	53 24.5	45
46	40 47.1	47 1.7	53 16.2	22 59 30.8	46
47	46 53.4	53 7.9	16 59 22.5	23 5 37.0	47
48	52 59.6	10 59 14.2	17 5 28.7	11 43.2	48
49	4 59 5.9	11 5 20.4	11 34.9	17 49.5	49
50	5 5 12.1	11 26.7	17 41.2	23 55.7	50
51	11 18.4	17 32.9	23 47.4	30 2.0	51
52	17 24.6	23 39.1	29 53.7	36 8.2	52
53	23 30.8	29 45.4	35 59.9	42 14.5	53
54	29 37.1	35 51.6	42 6.2	48 20.7	54
55	35 43.3	41 57.9	48 12.4	23 54 26.9	55
56	41 49.6	48 4.1	17 54 18.6	24 0 33.2	56
57	47 55.8	11 54 10.3	18 0 24.9	6 39.4	57
58	5 54 2.1	12 0 16.6	6 31.1	12 45.7	58
59	6 0 8.3	12 6 22.8	18 12 37.4	24 18 51.9	59

Red.		Red.	
s	m s	s	m s
0.00	0 0.0	0.50	3 3.1
01	3.7	51	6.8
02	7.3	52	10.4
03	11.0	53	14.1
04	14.6	54	17.8
0.05	18.3	0.55	21.4
06	22.0	56	25.1
07	25.6	57	28.8
08	29.3	58	32.4
09	33.0	59	36.1
0.10	36.6	0.60	39.7
11	40.3	61	43.4
12	43.9	62	47.1
13	47.6	63	50.7
14	51.3	64	54.4
0.15	54.9	0.65	3 58.1
16	0 58.6	66	4 1.7
17	1 2.3	67	5.4
18	5.9	68	9.0
19	9.6	69	12.7
0.20	13.2	0.70	16.4
21	16.9	71	20.0
22	20.6	72	23.7
23	24.2	73	27.4
24	27.9	74	31.0
0.25	31.6	0.75	34.7
26	35.2	76	38.3
27	38.9	77	42.0
28	42.5	78	45.7
29	46.2	79	49.3
0.30	49.9	0.80	53.0
31	53.5	81	4 56.7
32	1 57.2	82	5 0.3
33	2 0.9	83	4.0
34	4.5	84	7.6
0.35	8.2	0.85	11.3
36	11.8	86	15.0
37	15.5	87	18.6
38	19.2	88	22.3
39	22.8	89	26.0
0.40	26.5	0.90	29.6
41	30.2	91	33.3
42	33.8	92	36.9
43	37.5	93	40.6
44	41.1	94	44.3
0.45	44.8	0.95	47.9
46	48.5	96	51.6
47	52.1	97	55.3
48	55.8	98	5 58.9
0.49	2 59.5	0.99	6 2.6

Red.		Red.		Red.	
s	s	s	s	s	s
0.000		0.003		0.006	
	0.2		1.3		2.4
001		004		007	
	0.5		1.6		2.7
002		005		008	
	0.9		2.0		3.1
003		006		009	
	1.3		2.4		3.5
0.004		0.007		0.010	
					3.8

Die Reduktion ist von der Sternzeit zu subtrahieren.

m	0^h	1^h	2^h	3^h	4^h	5^h	s	
m	d	d	d	d	d	d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	000694	042361	084028	125694	167361	209028	1	000012
2	001389	043056	084722	126389	168056	209722	2	000023
3	002083	043750	085417	127083	168750	210417	3	000035
4	002778	044444	086111	127778	169444	211111	4	000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	004167	045833	087500	129167	170833	212500	6	000069
7	004861	046528	088194	129861	171528	213194	7	000081
8	005556	047222	088889	130556	172222	213889	8	000093
9	006250	047917	089583	131250	172917	214583	9	000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	007639	049306	090972	132639	174306	215972	11	000127
12	008333	050000	091667	133333	175000	216667	12	000139
13	009028	050694	092361	134028	175694	217361	13	000150
14	009722	051389	093056	134722	176389	218056	14	000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	011111	052778	094444	136111	177778	219444	16	000185
17	011806	053472	095139	136806	178472	220139	17	000197
18	012500	054167	095833	137500	179167	220833	18	000208
19	013194	054861	096528	138194	179861	221528	19	000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	014583	056250	097917	139583	181250	222917	21	000243
22	015278	056944	098611	140278	181944	223611	22	000255
23	015972	057639	099306	140972	182639	224306	23	000266
24	016667	058333	100000	141667	183333	225000	24	000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	018056	059722	101389	143056	184722	226389	26	000301
27	018750	060417	102083	143750	185417	227083	27	000313
28	019444	061111	102778	144444	186111	227778	28	000324
29	020139	061806	103472	145139	186806	228472	29	000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	021528	063194	104861	146528	188194	229861	31	000359
32	022222	063889	105556	147222	188889	230556	32	000370
33	022917	064583	106250	147917	189583	231250	33	000382
34	023611	065278	106944	148611	190278	231944	34	000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	025000	066667	108333	150000	191667	233333	36	000417
37	025694	067361	109028	150694	192361	234028	37	000428
38	026389	068056	109722	151389	193056	234722	38	000440
39	027083	068750	110417	152083	193750	235417	39	000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	028472	070139	111806	153472	195139	236806	41	000475
42	029167	070833	112500	154167	195833	237500	42	000486
43	029861	071528	113194	154861	196528	238194	43	000498
44	030556	072222	113889	155556	197222	238889	44	000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	031944	073611	115278	156944	198611	240278	46	000532
47	032639	074306	115972	157639	199306	240972	47	000544
48	033333	075000	116667	158333	200000	241667	48	000556
49	034028	075694	117361	159028	200694	242361	49	000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	035417	077083	118750	160417	202083	243750	51	000590
52	036111	077778	119444	161111	202778	244444	52	000602
53	036806	078472	120139	161806	203472	245139	53	000613
54	037500	079167	120833	162500	204167	245833	54	000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	038889	080556	122222	163889	205556	247222	56	000648
57	039583	081250	122917	164583	206250	247917	57	000660
58	040278	081944	123611	165278	206944	248611	58	000671
59	0.040972	0.082639	0.124306	0.165972	0.207639	0.249306	59	0.000683

m	6^h	7^h	8^h	9^h	10^h	11^h	s	
	d	d	d	d	d	d		d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	250694	292361	334028	375694	417361	459028	1	000012
2	251389	293056	334722	376389	418056	459722	2	000023
3	252083	293750	335417	377083	418750	460417	3	000035
4	252778	294444	336111	377778	419444	461111	4	000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	254167	295833	337500	379167	420833	462500	6	000069
7	254861	296528	338194	379861	421528	463194	7	000081
8	255556	297222	338889	380556	422222	463889	8	000093
9	256250	297917	339583	381250	422917	464583	9	000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	257639	299306	340972	382639	424306	465972	11	000127
12	258333	300000	341667	383333	425000	466667	12	000139
13	259028	300694	342361	384028	425694	467361	13	000150
14	259722	301389	343056	384722	426389	468056	14	000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	261111	302778	344444	386111	427778	469444	16	000185
17	261806	303472	345139	386806	428472	470139	17	000197
18	262500	304167	345833	387500	429167	470833	18	000208
19	263194	304861	346528	388194	429861	471528	19	000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	264583	306250	347917	389583	431250	472917	21	000243
22	265278	306944	348611	390278	431944	473611	22	000255
23	265972	307639	349306	390972	432639	474306	23	000266
24	266667	308333	350000	391667	433333	475000	24	000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	268056	309722	351389	393056	434722	476389	26	000301
27	268750	310417	352083	393750	435417	477083	27	000313
28	269444	311111	352778	394444	436111	477778	28	000324
29	270139	311806	353472	395139	436806	478472	29	000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	271528	313194	354861	396528	438194	479861	31	000359
32	272222	313889	355556	397222	438889	480556	32	000370
33	272917	314583	356250	397917	439583	481250	33	000382
34	273611	315278	356944	398611	440278	481944	34	000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	275000	316667	358333	400000	441667	483333	36	000417
37	275694	317361	359028	400694	442361	484028	37	000428
38	276389	318056	359722	401389	443056	484722	38	000440
39	277083	318750	360417	402083	443750	485417	39	000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	278472	320139	361806	403472	445139	486806	41	000475
42	279167	320833	362500	404167	445833	487500	42	000486
43	279861	321528	363194	404861	446528	488194	43	000498
44	280556	322222	363889	405556	447222	488889	44	000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	281944	323611	365278	406944	448611	490278	46	000532
47	282639	324306	365972	407639	449306	490972	47	000544
48	283333	325000	366667	408333	450000	491667	48	000556
49	284028	325694	367361	409028	450694	492361	49	000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	285417	327083	368750	410417	452083	493750	51	000590
52	286111	327778	369444	411111	452778	494444	52	000602
53	286806	328472	370139	411806	453472	495139	53	000613
54	287500	329167	370833	412500	454167	495833	54	000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	288889	330556	372222	413889	455556	497222	56	000648
57	289583	331250	372917	414583	456250	497917	57	000660
58	290278	331944	373611	415278	456944	498611	58	000671
59	0.290972	0.332639	0.374306	0.415972	0.457639	0.499306	59	0.000683

I. Anzahl der am o. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am o. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

I. Anzahl der am 0. Januar, 12h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1] Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage.

Ia. Anzahl der am 0. eines jeden Monats, 12h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2]	31[2]	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern.

[2] In den Jahren 1700, 1800, 1900 um 1 zu vergrößern.

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400 410	441	470	501	531	562	592	623	654	684	715	745
1861	776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401 141	172	200	231	261	292	322	353	384	414	445	475
1863	506	537	565	596	626	657	687	718	749	779	810	840
1864	871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402 237	268	296	327	357	388	418	449	480	510	541	571
1866	602	633	661	692	722	753	783	814	845	875	906	936
1867	967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403 332	363	392	423	453	484	514	545	576	606	637	667
1869	698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404 063	094	122	153	183	214	244	275	306	336	367	397
1871	428	459	487	518	548	579	609	640	671	701	732	762
1872	793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405 159	190	218	249	279	310	340	371	402	432	463	493
1874	524	555	583	614	644	675	705	736	767	797	828	858
1875	889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406 254	285	314	345	375	406	436	467	498	528	559	589
1877	620	651	679	710	740	771	801	832	863	893	924	954
1878	985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407 350	381	409	440	470	501	531	562	593	623	654	684
1880	715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408 081	112	140	171	201	232	262	293	324	354	385	415
1882	446	477	505	536	566	597	627	658	689	719	750	780
1883	811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409 176	207	236	267	297	328	358	389	420	450	481	511
1885	542	573	601	632	662	693	723	754	785	815	846	876
1886	907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410 272	303	331	362	392	423	453	484	515	545	576	606
1888	637	668	697	728	758	789	819	850	881	911	942	972
1889	2411 003	034	062	093	123	154	184	215	246	276	307	337
1890	368	399	427	458	488	519	549	580	611	641	672	702
1891	733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412 098	129	158	189	219	250	280	311	342	372	403	433
1893	464	495	523	554	584	615	645	676	707	737	768	798
1894	829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413 194	225	253	284	314	345	375	406	437	467	498	528
1896	559	590	619	650	680	711	741	772	803	833	864	894
1897	925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414 290	321	349	380	410	441	471	502	533	563	594	624
1899	655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der am o. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
1900	2415 020	051	079	110	140	171	201	232	263	293	324	354
1901	385	416	444	475	505	536	566	597	628	658	689	719
1902	750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416 115	146	174	205	235	266	296	327	358	388	419	449
1904	480	511	540	571	601	632	662	693	724	754	785	815
1905	846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417 211	242	270	301	331	362	392	423	454	484	515	545
1907	576	607	635	666	696	727	757	788	819	849	880	910
1908	941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418 307	338	366	397	427	458	488	519	550	580	611	641
1910	672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419 037	068	096	127	157	188	218	249	280	310	341	371
1912	402	433	462	493	523	554	584	615	646	676	707	737
1913	768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420 133	164	192	223	253	284	314	345	376	406	437	467
1915	498	529	557	588	618	649	679	710	741	771	802	832
1916	863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421 229	260	288	319	349	380	410	441	472	502	533	563
1918	594	625	653	684	714	745	775	806	837	867	898	928
1919	959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422 324	355	384	415	445	476	506	537	568	598	629	659
1921	690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423 055	086	114	145	175	206	236	267	298	328	359	389
1923	420	451	479	510	540	571	601	632	663	693	724	754
1924	785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424 151	182	210	241	271	302	332	363	394	424	455	485
1926	516	547	575	606	636	667	697	728	759	789	820	850
1927	881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425 246	277	306	337	367	398	428	459	490	520	551	581
1929	612	643	671	702	732	763	793	824	855	885	916	946
1930	977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426 342	373	401	432	462	493	523	554	585	615	646	676
1932	707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427 073	104	132	163	193	224	254	285	316	346	377	407
1934	438	469	497	528	558	589	619	650	681	711	742	772
1935	803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428 168	199	228	259	289	320	350	381	412	442	473	503
1937	534	565	593	624	654	685	715	746	777	807	838	868
1938	899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429 264	295	323	354	384	415	445	476	507	537	568	598

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1940	2429 629	660	689	720	750	781	811	842	873	903	934	964
1941	995	*026	*054	*085	*115	*146	*176	*207	*238	*268	*299	*329
1942	2430 360	391	419	450	480	511	541	572	603	633	664	694
1943	725	756	784	815	845	876	906	937	968	998	*029	*059
1944	2431 090	121	150	181	211	242	272	303	334	364	395	425
1945	456	487	515	546	576	607	637	668	699	729	760	790
1946	821	852	880	911	941	972	*002	*033	*064	*094	*125	*155
1947	2432 186	217	245	276	306	337	367	398	429	459	490	520
1948	551	582	611	642	672	703	733	764	795	825	856	886
1949	917	948	976	*007	*037	*068	*098	*129	*160	*190	*221	*251
1950	2433 282	313	341	372	402	433	463	494	525	555	586	616
1951	647	678	706	737	767	798	828	859	890	920	951	981
1952	2434 012	043	072	103	133	164	194	225	256	286	317	347
1953	378	409	437	468	498	529	559	590	621	651	682	712
1954	743	774	802	833	863	894	924	955	986	*016	*047	*077
1955	2435 108	139	167	198	228	259	289	320	351	381	412	442
1956	473	504	533	564	594	625	655	686	717	747	778	808
1957	839	870	898	929	959	990	*020	*051	*082	*112	*143	*173
1958	2436 204	235	263	294	324	355	385	416	447	477	508	538
1959	569	600	628	659	689	720	750	781	812	842	873	903
1960	934	965	994	*025	*055	*086	*116	*147	*178	*208	*239	*269
1961	2437 300	331	359	390	420	451	481	512	543	573	604	634
1962	665	696	724	755	785	816	846	877	908	938	969	999
1963	2438 030	061	089	120	150	181	211	242	273	303	334	364
1964	395	426	455	486	516	547	577	608	639	669	700	730
1965	761	792	820	851	881	912	942	973	*004	*034	*065	*095
1966	2439 126	157	185	216	246	277	307	338	369	399	430	460
1967	491	522	550	581	611	642	672	703	734	764	795	825
1968	856	887	916	947	977	*008	*038	*069	*100	*130	*161	*191
1969	2440 222	253	281	312	342	373	403	434	465	495	526	556
1970	587	618	646	677	707	738	768	799	830	860	891	921
1971	952	983	*011	*042	*072	*103	*133	*164	*195	*225	*256	*286
1972	2441 317	348	377	408	438	469	499	530	561	591	622	652
1973	683	714	742	773	803	834	864	895	926	956	987	*017
1974	2442 048	079	107	138	168	199	229	260	291	321	352	382
1975	413	444	472	503	533	564	594	625	656	686	717	747
1976	778	809	838	869	899	930	960	991	*022	*052	*083	*113
1977	2443 144	175	203	234	264	295	325	356	387	417	448	478
1978	509	540	568	599	629	660	690	721	752	782	813	843
1979	2443 874	905	933	964	994	*025	*055	*086	*117	*147	*178	*208

′ ″	°	′ ″	°	″	°	″	°
0 0.0	0.000	3 0.0	0.050	0.000	0.00000	1.800	0.00050
3.6	01	3.6	51	036	01	836	51
7.2	02	7.2	52	072	02	872	52
10.8	03	10.8	53	108	03	908	53
14.4	04	14.4	54	144	04	944	54
0 18.0	0.005	3 18.0	0.055	0.180	0.00005	1.980	0.00055
21.6	06	21.6	56	216	06	2.016	56
25.2	07	25.2	57	252	07	052	57
28.8	08	28.8	58	288	08	088	58
32.4	09	32.4	59	324	09	124	59
0 36.0	0.010	3 36.0	0.060	0.360	0.00010	2.160	0.00060
39.6	11	39.6	61	396	11	196	61
43.2	12	43.2	62	432	12	232	62
46.8	13	46.8	63	468	13	268	63
50.4	14	50.4	64	504	14	304	64
54.0	0.015	54.0	0.065	0.540	0.00015	2.340	0.00065
0 57.6	16	3 57.6	66	576	16	376	66
1 1.2	17	4 1.2	67	612	17	412	67
4.8	18	4.8	68	648	18	448	68
8.4	19	8.4	69	684	19	484	69
1 12.0	0.020	4 12.0	0.070	0.720	0.00020	2.520	0.00070
15.6	21	15.6	71	756	21	556	71
19.2	22	19.2	72	792	22	592	72
22.8	23	22.8	73	828	23	628	73
26.4	24	26.4	74	864	24	664	74
1 30.0	0.025	4 30.0	0.075	0.900	0.00025	2.700	0.00075
33.6	26	33.6	76	936	26	736	76
37.2	27	37.2	77	0.972	27	772	77
40.8	28	40.8	78	1.008	28	808	78
44.4	29	44.4	79	044	29	844	79
1 48.0	0.030	4 48.0	0.080	1.080	0.00030	2.880	0.00080
51.6	31	51.6	81	116	31	916	81
55.2	32	55.2	82	152	32	952	82
1 58.8	33	4 58.8	83	188	33	2.988	83
2 2.4	34	5 2.4	84	224	34	3.024	84
6.0	0.035	6.0	0.085	1.260	0.00035	060	0.00085
9.6	36	9.6	86	296	36	096	86
13.2	37	13.2	87	332	37	132	87
16.8	38	16.8	88	368	38	168	88
20.4	39	20.4	89	404	39	204	89
2 24.0	0.040	5 24.0	0.090	1.440	0.00040	3.240	0.00090
27.6	41	27.6	91	476	41	276	91
31.2	42	31.2	92	512	42	312	92
34.8	43	34.8	93	548	43	348	93
38.4	44	38.4	94	584	44	384	94
2 42.0	0.045	5 42.0	0.095	1.620	0.00045	3.420	0.00095
45.6	46	45.6	96	656	46	456	96
49.2	47	49.2	97	692	47	492	97
52.8	48	52.8	98	728	48	528	98
2 56.4	49	5 56.4	99	764	49	564	99
3 0.0	0.050	6 0.0	0.100	1.800	0.00050	3.600	0.00100

δ \ φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
−20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
−10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
− 1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

δ \ φ	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
−20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
−10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
− 1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ 1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.1	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1940	m	m	m	m	m	m	m	m	m	m	m
Jan. 2	∓62.6	∓57.9	∓53.0	∓47.9	∓42.5	∓36.6	∓30.4	∓23.7	∓16.5	∓8.7	0.0
12	∓58.4	∓53.9	∓49.4	∓44.5	∓39.5	∓34.1	∓28.3	∓22.0	∓15.3	∓8.0	0.0
22	∓52.0	∓48.0	∓43.9	∓39.5	∓35.1	∓30.2	∓25.0	∓19.6	∓13.6	∓7.1	0.0
Febr. 1	∓44.1	∓40.7	∓37.2	∓33.5	∓29.6	∓25.6	∓21.1	∓16.4	∓11.5	∓5.9	0.0
11	∓35.3	∓32.6	∓29.7	∓26.8	∓23.7	∓20.4	∓16.8	∓13.0	∓ 9.1	∓4.7	0.0
21	∓26.0	∓24.0	∓21.8	∓19.7	∓17.4	∓14.9	∓12.3	∓ 9.5	∓ 6.6	∓3.4	0.0
März 2	∓16.3	∓15.1	∓13.7	∓12.4	∓10.9	∓ 9.3	∓ 7.7	∓ 5.9	∓ 4.1	∓2.1	0.0
12	∓ 6.6	∓ 6.2	∓ 5.6	∓ 5.1	∓ 4.4	∓ 3.7	∓ 3.1	∓ 2.4	∓ 1.7	∓0.8	0.0
22	± 3.1	± 2.8	± 2.6	± 2.4	± 2.1	± 1.9	± 1.5	± 1.2	± 0.8	±0.4	0.0
April 1	±12.7	±11.7	±10.7	± 9.7	± 8.6	± 7.4	± 6.1	± 4.8	± 3.3	±1.7	0.0
11	±22.4	±20.6	±18.9	±17.0	±15.0	±12.9	±10.6	± 8.4	± 5.7	±3.0	0.0
21	±31.8	±29.3	±26.9	±24.2	±21.3	±18.4	±15.2	±11.9	± 8.2	±4.3	0.0
Mai 1	±40.9	±37.8	±34.6	±31.2	±27.6	±23.7	±19.8	±15.4	±10.7	±5.6	0.0
11	±49.5	±45.8	±41.8	±37.8	±33.6	±28.8	±24.0	±18.6	±13.0	±6.8	0.0
21	±57.0	±52.9	±48.4	±43.7	±38.8	±33.4	±27.8	±21.7	±15.1	±7.9	0.0
31	±63.1	±58.6	±53.7	±48.5	±43.1	±37.1	±30.9	±24.2	±16.9	±8.8	0.0
Juni 10	±67.2	±62.3	±57.2	±51.7	±45.9	±39.7	±33.1	±26.0	±18.0	±9.5	0.0
20	±68.8	±63.8	±58.6	±52.9	±47.0	±40.7	±33.9	±26.6	±18.5	±9.8	0.0
30	±67.8	±62.8	±57.7	±52.1	±46.3	±40.0	±33.3	±26.2	±18.2	±9.6	0.0
Juli 10	±64.3	±59.5	±54.6	±49.3	±43.9	±37.9	±31.5	±24.7	±17.1	±9.1	0.0
20	±58.6	±54.2	±49.7	±44.9	±39.9	±34.4	±28.5	±22.4	±15.5	±8.2	0.0
30	±51.3	±47.5	±43.6	±39.2	±34.8	±30.0	±24.9	±19.5	±13.5	±7.0	0.0
Aug. 9	±43.1	±39.8	±36.5	±32.8	±29.1	±25.1	±20.8	±16.2	±11.3	±5.8	0.0
19	±34.2	±31.6	±28.8	±26.0	±23.0	±19.9	±16.5	±12.7	± 8.9	±4.6	0.0
29	±24.9	±23.0	±21.0	±19.0	±16.7	±14.4	±12.0	± 9.2	± 6.5	±3.3	0.0
Sept. 8	±15.5	±14.2	±13.0	±11.8	±10.4	± 8.9	± 7.4	± 5.7	± 4.0	±2.0	0.0
18	± 6.0	± 5.4	± 4.9	± 4.5	± 4.0	± 3.4	± 2.8	± 2.2	± 1.6	±0.8	0.0
28	∓ 3.8	∓ 3.4	∓ 3.1	∓ 2.7	∓ 2.4	∓ 2.1	∓ 1.7	∓ 1.3	∓ 0.9	∓0.5	0.0
Okt. 8	∓13.3	∓12.2	∓11.1	∓10.0	∓ 8.8	∓ 7.6	∓ 6.2	∓ 4.9	∓ 3.3	∓1.7	0.0
18	∓22.8	∓21.0	∓19.2	∓17.2	∓15.2	∓13.1	∓10.7	∓ 8.4	∓ 5.7	∓3.0	0.0
28	∓32.1	∓29.6	∓27.1	∓24.3	∓21.5	∓18.4	∓15.2	∓11.9	∓ 8.2	∓4.3	0.0
Nov. 7	∓41.0	∓37.9	∓34.6	∓31.2	∓27.6	∓23.6	∓19.6	∓15.3	∓10.5	∓5.6	0.0
17	∓49.3	∓45.5	∓41.6	∓37.6	∓33.1	∓28.5	∓23.7	∓18.4	∓12.8	∓6.8	0.0
27	∓56.2	∓52.0	∓47.5	∓42.9	∓38.0	∓32.7	∓27.2	∓21.2	∓14.8	∓7.7	0.0
Dez. 7	∓61.3	∓56.7	∓51.9	∓46.8	∓41.5	∓35.8	∓29.8	∓23.3	∓16.2	∓8.5	0.0
17	∓64.0	∓59.2	∓54.2	∓49.0	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
27	∓63.8	∓59.0	∓54.0	∓48.8	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
37	∓60.9	∓56.3	∓51.5	∓46.6	∓41.3	∓35.6	∓29.6	∓23.1	∓16.0	∓8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1940	m	m	m	m	m	m	m	m	m	m	m
Jan. 2	0.0	±4.7	± 9.6	±14.8	±20.4	±26.3	±32.7	±39.5	±46.9	±54.9	±63.7
12	0.0	±4.4	± 8.9	±13.7	±18.7	±24.3	±30.0	±36.2	±42.9	±50.1	±58.0
22	0.0	±3.8	± 7.8	±12.0	±16.5	±21.1	±26.2	±31.6	±37.2	±43.4	±50.0
Febr. 1	0.0	±3.2	± 6.5	±10.0	±13.7	±17.6	±21.8	±26.1	±30.8	±35.8	±41.2
11	0.0	±2.5	± 5.1	± 7.9	±10.8	±13.9	±17.1	±20.4	±24.1	±27.9	±32.1
21	0.0	±1.8	± 3.7	± 5.7	± 7.8	±10.0	±12.4	±14.7	±17.4	±20.1	±23.0
März 2	0.0	±1.2	± 2.3	± 3.6	± 4.9	± 6.2	± 7.7	± 9.1	±10.8	±12.4	±14.1
12	0.0	±0.5	± 0.9	± 1.4	± 2.0	± 2.5	± 3.1	± 3.6	± 4.2	± 4.9	± 5.6
22	0.0	∓0.2	∓ 0.5	∓ 0.7	∓ 0.9	∓ 1.3	∓ 1.6	∓ 1.9	∓ 2.2	∓ 2.6	∓ 3.0
April 1	0.0	∓0.9	∓ 1.9	∓ 2.8	∓ 3.9	∓ 5.0	∓ 6.2	∓ 7.5	∓ 8.7	∓10.2	∓11.5
11	0.0	∓1.5	∓ 3.3	∓ 5.0	∓ 6.9	∓ 8.8	∓10.8	∓13.1	∓15.3	∓17.8	∓20.3
21	0.0	∓2.2	∓ 4.7	∓ 7.2	∓ 9.9	∓12.7	∓15.6	∓18.8	∓22.1	∓25.6	∓29.4
Mai 1	0.0	∓3.0	∓ 6.2	∓ 9.4	∓12.9	∓16.6	∓20.4	∓24.6	∓28.9	∓33.6	∓38.6
11	0.0	∓3.6	∓ 7.5	∓11.5	∓15.8	∓20.4	∓25.1	∓30.4	∓35.9	∓41.8	∓48.1
21	0.0	∓4.2	∓ 8.8	∓13.5	∓18.5	∓24.0	∓29.7	∓35.9	∓42.6	∓49.8	∓57.6
31	0.0	∓4.7	∓ 9.8	∓15.3	∓20.9	∓27.1	∓33.7	∓40.8	∓48.4	∓56.8	∓66.1
Juni 10	0.0	∓5.1	∓10.6	∓16.4	∓22.7	∓29.3	∓36.4	∓44.2	∓52.6	∓62.0	∓72.4
20	0.0	∓5.3	∓10.9	∓16.9	∓23.3	∓30.2	∓37.5	∓45.6	∓54.4	∓64.0	∓75.1
30	0.0	∓5.2	∓10.7	∓16.6	∓22.9	∓29.5	∓36.8	∓44.7	∓53.3	∓62.7	∓73.4
Juli 10	0.0	∓4.9	∓10.1	∓15.5	∓21.4	∓27.7	∓34.4	∓41.6	∓49.5	∓58.2	∓67.7
20	0.0	∓4.4	∓ 9.0	∓13.9	∓19.2	∓24.8	∓30.7	∓37.1	∓44.0	∓51.5	∓59.7
30	0.0	∓3.8	∓ 7.8	∓12.0	∓16.5	∓21.2	∓26.3	∓31.7	∓37.5	∓43.7	∓50.5
Aug. 9	0.0	∓3.2	∓ 6.4	∓ 9.9	∓13.7	∓17.5	∓21.7	∓26.0	∓30.7	∓35.6	∓41.0
19	0.0	∓2.5	∓ 5.0	∓ 7.7	∓10.7	∓13.6	∓16.9	∓20.2	∓23.9	∓27.6	∓31.8
29	0.0	∓1.8	∓ 3.6	∓ 5.6	∓ 7.7	∓ 9.8	∓12.1	∓14.5	∓17.1	∓19.8	∓22.7
Sept. 8	0.0	∓1.2	∓ 2.2	∓ 3.5	∓ 4.8	∓ 6.0	∓ 7.5	∓ 8.9	∓10.5	∓12.2	∓14.0
18	0.0	∓0.5	∓ 0.8	∓ 1.4	∓ 1.9	∓ 2.3	∓ 2.9	∓ 3.4	∓ 4.1	∓ 4.7	∓ 5.4
28	0.0	±0.2	± 0.6	± 0.7	± 1.0	± 1.4	± 1.6	± 2.0	± 2.3	± 2.6	± 3.0
Okt. 8	0.0	±0.9	± 1.9	± 2.9	± 3.9	± 5.1	± 6.2	± 7.4	± 8.7	±10.1	±11.4
18	0.0	±1.6	± 3.3	± 5.0	± 6.8	± 8.8	±10.7	±12.9	±15.2	±17.6	±20.1
28	0.0	±2.2	± 4.7	± 7.1	± 9.7	±12.6	±15.4	±18.5	±21.8	±25.2	±28.9
Nov. 7	0.0	±2.9	± 6.1	± 9.2	±12.7	±16.3	±20.1	±24.1	±28.4	±33.0	±38.0
17	0.0	±3.6	± 7.4	±11.3	±15.5	±19.9	±24.6	±29.7	±35.0	±40.7	±46.9
27	0.0	±4.1	± 8.4	±13.2	±18.0	±23.1	±28.7	±34.6	±41.0	±47.8	±55.3
Dez. 7	0.0	±4.6	± 9.3	±14.6	±19.9	±25.7	±31.9	±38.4	±45.7	±53.4	±61.9
17	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.6	±48.3	±56.5	±65.7
27	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.4	±48.1	±56.3	±65.5
37	0.0	±4.6	± 9.3	±14.3	±19.7	±25.5	±31.7	±38.2	±45.2	±53.0	±61.3

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

t*)	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	∓94.6	∓87.9	∓80.9	∓73.4	∓65.5	∓56.9	∓47.6	∓37.5	∓26.4	∓14.0	0.0
3 30	∓88.5	∓82.2	∓75.6	∓68.5	∓61.0	∓52.9	∓44.2	∓34.8	∓24.4	∓12.9	0.0
3 40	∓82.5	∓76.5	∓70.3	∓63.7	∓56.6	∓49.1	∓41.0	∓32.2	∓22.5	∓11.9	0.0
3 50	∓76.6	∓71.0	∓65.2	∓59.0	∓52.4	∓45.3	∓37.8	∓29.6	∓20.7	∓10.9	0.0
4 0	∓70.8	∓65.6	∓60.1	∓54.4	∓48.2	∓41.7	∓34.7	∓27.2	∓18.9	∓ 9.9	0.0
4 10	∓65.1	∓60.3	∓55.2	∓49.9	∓44.2	∓38.2	∓31.7	∓24.8	∓17.3	∓ 9.0	0.0
4 20	∓59.5	∓55.0	∓50.3	∓45.5	∓40.3	∓34.8	∓28.9	∓22.5	∓15.7	∓ 8.2	0.0
4 30	∓54.0	∓49.9	∓45.6	∓41.2	∓36.5	∓31.4	∓26.1	∓20.4	∓14.1	∓ 7.4	0.0
4 40	∓48.4	∓44.8	∓40.9	∓36.9	∓32.7	∓28.2	∓23.3	∓18.2	∓12.6	∓ 6.6	0.0
4 50	∓43.0	∓39.8	∓36.4	∓32.7	∓29.0	∓24.9	∓20.7	∓16.1	∓11.2	∓ 5.8	0.0
5 0	∓37.7	∓34.8	∓31.8	∓28.6	∓25.3	∓21.8	∓18.1	∓14.1	∓ 9.8	∓ 5.0	0.0
5 10	∓32.4	∓29.9	∓27.3	∓24.6	∓21.7	∓18.7	∓15.5	∓12.1	∓ 8.4	∓ 4.3	0.0
5 20	∓27.1	∓25.0	∓22.8	∓20.6	∓18.2	∓15.6	∓12.9	∓10.1	∓ 7.0	∓ 3.6	0.0
5 30	∓21.9	∓20.2	∓18.4	∓16.6	∓14.7	∓12.6	∓10.4	∓ 8.1	∓ 5.6	∓ 2.9	0.0
5 40	∓16.7	∓15.4	∓14.0	∓12.6	∓11.2	∓ 9.6	∓ 7.9	∓ 6.2	∓ 4.3	∓ 2.2	0.0
5 50	∓11.5	∓10.6	∓ 9.7	∓ 8.7	∓ 7.7	∓ 6.6	∓ 5.5	∓ 4.2	∓ 2.9	∓ 1.5	0.0
6 0	∓ 6.4	∓ 5.8	∓ 5.4	∓ 4.8	∓ 4.2	∓ 3.6	∓ 3.0	∓ 2.3	∓ 1.6	∓ 0.9	0.0
6 10	∓ 1.2	∓ 1.1	∓ 1.0	∓ 0.9	∓ 0.8	∓ 0.7	∓ 0.6	∓ 0.4	∓ 0.3	∓ 0.2	0.0
6 20	± 4.0	± 3.7	± 3.4	± 3.0	± 2.6	± 2.3	± 1.9	± 1.5	± 1.0	± 0.5	0.0
6 30	± 9.1	± 8.4	± 7.7	± 6.9	± 6.1	± 5.3	± 4.4	± 3.4	± 2.4	± 1.2	0.0
6 40	±14.3	±13.2	±12.0	±10.8	± 9.6	± 8.2	± 6.8	± 5.3	± 3.7	± 1.9	0.0
6 50	±19.5	±18.0	±16.4	±14.8	±13.1	±11.2	± 9.3	± 7.2	± 5.0	± 2.6	0.0
7 0	±24.7	±22.8	±20.9	±18.8	±16.6	±14.2	±11.8	± 9.1	± 6.3	± 3.3	0.0
7 10	±30.0	±27.7	±25.3	±22.8	±20.1	±17.3	±14.3	±11.1	± 7.7	± 4.0	0.0
7 20	±35.3	±32.6	±29.7	±26.8	±23.7	±20.3	±16.8	±13.1	± 9.1	± 4.7	0.0
7 30	±40.6	±37.5	±34.3	±30.9	±27.3	±23.4	±19.4	±15.1	±10.5	± 5.5	0.0
7 40	±45.9	±42.5	±38.9	±35.0	±31.0	±26.6	±22.1	±17.2	±12.0	± 6.2	0.0
7 50	±51.4	±47.6	±43.5	±39.2	±34.7	±29.9	±24.8	±19.3	±13.5	± 7.0	0.0
8 0	±56.9	±52.7	±48.2	±43.5	±38.5	±33.2	±27.6	±21.5	±15.0	± 7.8	0.0
8 10	±62.5	±57.9	±53.0	±47.9	±42.4	±36.6	±30.4	±23.8	±16.6	± 8.6	0.0
8 20	±68.2	±63.2	±57.9	±52.3	±46.4	±40.1	±33.3	±26.1	±18.2	± 9.5	0.0
8 30	±74.0	±68.5	±62.9	±56.9	±50.5	±43.7	±36.4	±28.5	±19.8	±10.5	0.0
8 40	±79.8	±74.0	±67.9	±61.5	±54.7	±47.3	±39.5	±30.9	±21.6	±11.4	0.0
8 50	±85.8	±79.6	±73.1	±66.3	±59.0	±51.1	±42.7	±33.5	±23.5	±12.5	0.0
9 0	±91.9	±85.3	±78.4	±71.2	±63.4	±55.0	±46.0	±36.3	±25.5	±13.5	0.0

*) t ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

t*)	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	±7.7	±16.1	±25.2	±35.1	±46.1	±58.4	±72.5	±89.1	±109.7	±138.1
3 30	0.0	±7.1	±14.7	±22.9	±31.8	±41.6	±52.4	±64.5	±78.3	± 94.5	±114.3
3 40	0.0	±6.5	±13.4	±20.9	±28.9	±37.6	±47.2	±57.7	±69.4	± 82.7	± 98.2
3 50	0.0	±5.9	±12.2	±19.0	±26.2	±34.0	±42.5	±51.7	±61.9	± 73.3	± 86.1
4 0	0.0	±5.4	±11.1	±17.2	±23.7	±30.8	±38.2	±46.3	±55.2	± 65.0	± 76.0
4 10	0.0	±4.9	±10.1	±15.6	±21.4	±27.7	±34.4	±41.6	±49.4	± 57.9	± 67.3
4 20	0.0	±4.5	± 9.1	±14.0	±19.2	±24.8	±30.8	±37.2	±44.0	± 51.5	± 59.6
4 30	0.0	±4.0	± 8.1	±12.5	±17.2	±22.2	±27.5	±33.1	±39.1	± 45.7	± 52.7
4 40	0.0	±3.5	± 7.3	±11.2	±15.3	±19.7	±24.3	±29.3	±34.5	± 40.2	± 46.3
4 50	0.0	±3.1	± 6.4	± 9.8	±13.4	±17.3	±21.4	±25.6	±30.2	± 35.1	± 40.4
5 0	0.0	±2.7	± 5.5	± 8.5	±11.6	±15.0	±18.5	±22.2	±26.1	± 30.3	± 34.8
5 10	0.0	±2.3	± 4.7	± 7.2	±10.0	±12.8	±15.7	±18.9	±22.2	± 25.7	± 29.5
5 20	0.0	±2.0	± 3.9	± 6.0	± 8.3	±10.7	±13.1	±15.7	±18.4	± 21.3	± 24.4
5 30	0.0	±1.6	± 3.2	± 4.8	± 6.7	± 8.5	±10.5	±12.6	±14.8	± 17.1	± 19.6
5 40	0.0	±1.2	± 2.4	± 3.7	± 5.0	± 6.5	± 7.9	± 9.5	±11.2	± 13.0	± 14.8
5 50	0.0	±0.8	± 1.7	± 2.6	± 3.4	± 4.4	± 5.5	± 6.5	± 7.7	± 8.9	± 10.2
6 0	0.0	±0.5	± 0.9	± 1.4	± 1.9	± 2.4	± 3.0	± 3.6	± 4.2	± 4.9	± 5.6
6 10	0.0	±0.1	± 0.2	± 0.2	± 0.4	± 0.5	± 0.6	± 0.7	± 0.8	± 0.9	± 1.1
6 20	0.0	∓0.3	∓ 0.6	∓ 0.9	∓ 1.2	∓ 1.5	∓ 1.9	∓ 2.3	∓ 2.6	∓ 3.0	∓ 3.5
6 30	0.0	∓0.6	∓ 1.3	∓ 2.0	∓ 2.7	∓ 3.5	∓ 4.3	∓ 5.2	∓ 6.0	∓ 7.0	∓ 8.0
6 40	0.0	∓1.0	∓ 2.1	∓ 3.1	∓ 4.3	∓ 5.5	∓ 6.8	∓ 8.1	∓ 9.5	∓ 11.0	∓ 12.6
6 50	0.0	∓1.3	∓ 2.9	∓ 4.3	∓ 5.9	∓ 7.5	∓ 9.4	∓11.2	∓13.1	∓ 15.1	∓ 17.3
7 0	0.0	∓1.7	∓ 3.6	∓ 5.5	∓ 7.5	∓ 9.6	∓11.9	∓14.3	∓16.7	∓ 19.3	∓ 22.2
7 10	0.0	∓2.1	∓ 4.4	∓ 6.7	∓ 9.2	∓11.7	∓14.5	∓17.4	∓20.4	∓ 23.7	∓ 27.1
7 20	0.0	∓2.5	∓ 5.1	∓ 7.9	∓10.8	∓13.8	∓17.1	∓20.6	∓24.2	∓ 28.1	∓ 32.3
7 30	0.0	∓2.9	∓ 6.0	∓ 9.2	∓12.6	∓16.1	∓19.9	∓24.0	∓28.2	∓ 32.8	∓ 37.7
7 40	0.0	∓3.3	∓ 6.9	∓10.6	∓14.4	∓18.5	∓22.9	∓27.5	∓32.4	∓ 37.8	∓ 43.4
7 50	0.0	∓3.8	∓ 7.7	∓12.0	∓16.3	∓21.0	∓25.9	∓31.3	∓36.9	∓ 43.0	∓ 49.6
8 0	0.0	∓4.2	∓ 8.7	∓13.4	∓18.3	∓23.7	∓29.2	∓35.3	∓41.7	∓ 48.7	∓ 56.3
8 10	0.0	∓4.7	∓ 9.6	∓14.9	∓20.4	∓26.4	∓32.6	∓39.5	∓46.8	∓ 54.8	∓ 63.5
8 20	0.0	∓5.2	∓10.6	∓16.4	∓22.6	∓29.2	∓36.3	∓44.0	∓52.3	∓ 61.5	∓ 71.6
8 30	0.0	∓5.7	∓11.7	∓18.1	∓25.0	∓32.4	∓40.4	∓49.1	∓58.6	∓ 69.1	∓ 81.0
8 40	0.0	∓6.3	∓12.9	∓19.9	∓27.6	∓35.8	∓44.9	∓54.9	∓65.7	∓ 77.9	∓ 92.1
8 50	0.0	∓6.8	∓14.1	∓21.9	∓30.5	∓39.7	∓49.8	∓61.2	∓73.8	∓ 88.5	∓106.1
9 0	0.0	∓7.4	∓15.4	∓24.1	∓33.7	∓44.1	∓55.3	∓68.4	∓83.6	∓101.4	∓125.9

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	a	B	λ−☊	λ−☊	Δλ	a	B	λ−☊
°	′		° ′	°	°	′		° ′	°
0	+0.0+	−0.0269+	−0 0.0+	180	45	+0.6+	−0.0190+	−1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	−0.0268+	−0 8.0+	185	50	+0.6+	−0.0173+	−1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0114+	−1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	−0.0233+	−0 46.2+	210	75	+0.3+	−0.0070+	−1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	−0.0220+	−0 53.0+	215	80	+0.2+	−0.0047+	−1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	−0.0206+	−0 59.4+	220	85	+0.1+	−0.0023+	−1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	−0.0190+	−1 5.3+	225	90	+0.0+	−0.0000+	−1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B-\beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite.

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	a	B	λ−☊	λ−☊	Δλ	a	B	λ−☊
°	′		° ′	°	°	′		° ′	°
90	−0.0−	+0.0000−	−1 32.3+	270	135	−0.6−	+0.0190−	−1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	−0.1−	+0.0023−	−1 32.0+	275	140	−0.6−	+0.0206−	−0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	−0.2−	+0.0047−	−1 30.9+	280	145	−0.6−	+0.0220−	−0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	−0.3−	+0.0070−	−1 29.2+	285	150	−0.5−	+0.0233−	−0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	−0.4−	+0.0092−	−1 26.8+	290	155	−0.5−	+0.0243−	−0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	−0.5−	+0.0114−	−1 23.7+	295	160	−0.4−	+0.0252−	−0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	−0.5−	+0.0134−	−1 20.0+	300	165	−0.3−	+0.0259−	−0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	−0.6−	+0.0154−	−1 15.6+	305	170	−0.2−	+0.0264−	−0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	−0.6−	+0.0173−	−1 10.7+	310	175	−0.1−	+0.0268−	−0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6.4	314	179	0.0	268	0 1.6	359
135	−0.6−	+0.0190−	−1 5.3+	315	180	−0.0−	+0.0269−	−0 0.0+	360

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite.

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi; \qquad \rho \cos \varphi' = c \cos \varphi$

φ	log s		log c		φ	log s		log c	
± 0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	.9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abastumani (Mt. Kanobili)	1700	+41 43	− 2 51	− 28.1	+41 32	9.999471
Abbadia	69	+43 22 52.2	+ 0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Abo	—	+60 26 56.8	− 1 29 6.30	− 14.64	+60 16 58.8	9.998894
Adelaide	41	−34 55 35.1	− 9 14 19.90	− 91.06	−34 44 42.7	9.999526
Albany (Neue Sternw.)[1] .	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (Neue Sternw.)[2] . .	345	+36 48 4.8	− 0 12 8.47	− 1.99	+36 36 58.1	9.999497
Allegheny (Neue Sternw.).	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (Alte Sternw.) .	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Sternw.) .	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. Sternw.[3].	184	+43 45 14.4	− 0 45 1.30	− 7.39	+43 33 39.5	9.999316
Arequipa[4])	2451	−16 22 28.0	+ 4 46 11.73	+ 47.02	−16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	− 1 34 52.2	− 15.58	+37 47 1.2	9.999456
Bamberg (Remeis-Sternw.)	288	+49 53 6.0	− 0 43 33.57	− 7.15	+49 41 40.0	9.999167
Barcelona[5])	415	+41 24 59.3	− 0 8 30.2	− 1.41	+41 13 29.4	9.999391
Bayreuth (Haus d. Erziehung)	354	+49 56 46	− 0 46 18.4	− 7.61	+49 45 20	9.999170
Belgrad	250	+44 48 8	− 1 22 3.8	− 13.48	+44 36 32	9.999294
Bergedorf Mer.-Kr. . .	41	+53 28 46.9	− 0 40 57.74	− 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.80	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg[6]) .	82	+52 24 24.2	− 0 52 25.49	− 8.61	+52 13 11.1	9.999089
Berlin (Urania)[7]) . . .	47	+52 31 30.7	− 0 53 27.40	− 8.78	+52 20 18.3	9.999084
Bern	573	+46 57 8.7	− 0 29 45.55	− 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	− 0 23 57.1	− 3.93	+47 3 25.3	9.999236
Blaca	280	+43 17 37	− 1 6 8.0	− 10.86	+43 6 3	9.999334
Bloemfontein Filiale d. Detroit Obs.	1490	−29 5 45	− 1 44 57	− 17.24	−28 55 55	9.999758
Bloemfontein Boyden Stat. d. Harv. Obs.	1379	−29 12	− 1 45 57	− 17.40	−29 2	9.999748
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Sternw.	84	+44 29 52.8	− 0 45 24.48	− 7.46	+44 18 17.3	9.999290
Bombay (Colaba) . . .	19	+18 53 36.2	− 4 51 15.60	− 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Sternw. . .	62	+50 43 45.0	− 0 28 23.18	− 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac). . .	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Boston (University)[8]) . .	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Bothkamp[9]).	32	+54 12 9.6	− 0 40 31.2	− 6.65	+54 1 8.8	9.999042
Breslau Zentr. d. Sternw. .	147	+51 6 56.5	− 1 8 8.72	− 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw.[10]) .	117	+51 6 42.1	− 1 8 21.22	− 11.23	+50 55 21.7	9.999130
Brisbane	51	−27 28 23.0	−10 12 6.48	−100.55	−27 18 54.6	9.999694
Brüssel (Alte Sternw.) Pass. Instr. . .	56	+50 51 10.7	− 0 17 28.71	− 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr. .	105	+50 47 54.6	− 0 17 26.05	− 2.86	+50 36 32.7	9.999131
Budapest Univ.-Sternw. .	110	+47 29 34.7	− 1 16 15.4	− 12.53	+47 18 1.5	9.999215
Budapest-Svábhegy .	474	+47 29 58.5	− 1 15 51.47	− 12.46	+47 18 25.3	9.999240

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″0 nördlich, 7s10 östlich. — [2]) Alte Sternwarte 3″8 südlich, 8s östlich. — [3]) Seit Oktober 1872, früher in Florenz. — [4]) 1927 geschlossen und nach Bloemfontein verlegt. — [5]) J. Comas Solá. — [6]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″5 nördlich und 1m 9s31 östlich. — [7]) Übungssternwarte der Universität. — [8]) Die alte Sternwarte lag 4s1 östlich, 34″5 nördlich. — [9]) Herr von Bülow. — [10]) Geogr. Breite des Vertikalkreises, Länge des Durchgangsinstruments.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
		° ′ ″	h m s	s	° ′ ″	
Budapest[1]	110	+47 28 49	−1 16 13.7	−12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−1 44 27.01	−17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	−0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[2] . .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	−33 56 6.8	−1 13 54.60	−12.14	−33 45 23.2	9.999547
Caracas (Observ. Cajigal) .	1042	+10 30 24.3	+4 27 42.61	+43.98	+10 26 15.6	0.000023
Castel Gandolfo . .	—	+41 44 48	−0 50 36.4	− 8.31	+41 33 17	9.999354
Catania.	47	+37 30 13.3	−1 0 20.60	− 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	−2 24 55.72	−23.81	+49 48 44.4	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	−0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[3] . . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Sternw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Sternw.)[4]	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) . .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[5] .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	−31 25 15.5	+4 16 47.16	+42.18	−31 14 57.5	9.999635
Danzig (Naturf. Ges.) . .	30	+54 21 18.0	−1 14 39.6	−12.26	+54 10 18.4	9.999036
Danzig (Städt. Sternw.) .	30	+54 21 37.9	−1 14 36.5	−12.26	+54 10 38.3	9.999036
Delaware (Perkins Obs.) .	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410
Denver[6]	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer.-Kr. .	67	+58 22 47.2	−1 46 53.18	−17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.) .	168	+51 1 49.3	−0 54 55.1	− 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon) .	—	+51 3 14.7	−0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) . .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	−0 27 2.69	− 4.44	+51 1 5.1	9.999117
Dunlap Obs. (Toronto) .	244	+43 51 46	+5 17 41.3	+52.19	+43 40 11	9.999317
Durban	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill) .	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Faenza (Urania Lamonia) .	45	+44 17 2	−0 47 33.9	− 7.81	+44 5 27	9.999293
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[7] .	73	+43 46 4.1	−0 44 59.6	− 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	−0 45 2.5	− 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . . .	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 34.6	9.999149
Genf Mer.-Kr.	406	+46 11 59.3	−0 24 36.53	− 4.04	+46 0 24.1	9.999269
Genua (Mar. Sternw.) Mer.-Kr. . .	108	+44 25 8.1	−0 35 41.28	− 5.86	+44 13 32.6	9.999294
Georgetown D. C. . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003

[1]) Observ. der Kgl. Josef-Technischen Hochschule. — [2]) Harvard College Observatory. — [3]) Leander Mc. Cormick Observatory, University of Virginia. — [4]) Mount Lookout seit 1873. — [5]) Laws Observatory. — [6]) University Park, Chamberlin Observatory. — [7]) 1872 nach Arcetri verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Göttingen Mer.-Kr. . .	161	+51 31 48.2	−0 39 46.22	− 6.53	+51 20 30.0	9.999117
Gotha (Neue Sternw.)[1] Zentr. d. St.) . .	322	+50 56 37.9	−0 42 50.51	− 7.04	+50 45 16.7	9.999142
Graz	375	+47 4 37.2	−1 1 47.71	−10.15	+46 53 3.2	9.999244
Greenwich Transit Circle .	47	+51 28 38.2	0 0 0.00	0.00	+51 17 19.7	9.999110
Groningen	4	+53 13 13.8	−0 26 15.11	− 4.31	+53 2 6.0	9.999064
Grünwald[2])	599	+48 2 7	−0 46 6.55	− 7.58	+47 50 35	9.999235
Hamburg (Alte Sternw.)[3] Mer.-Kr.)	25	+53 33 6.0	−0 39 53.60	− 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte) .	30	+53 32 51.8	−0 39 53.42	− 6.55	+53 21 46.2	9.999058
Hanover N. H. . . .	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5	9.999317
Haverford	116	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	9.999406
Heidelberg (Wolfs Sternw.)	126	+49 24 35	−0 34 48.4	− 5.72	+49 13 7	9.999159
Heidelberg (Königst.) Mer.-Kr. . .	570	+49 23 54.6	−0 34 53.13	− 5.73	+49 12 26.8	9.999198
Helsingfors Mer.-Kr. . .	33	+60 9 42.3	−1 39 49.10	−16.40	+59 59 40.8	9.998903
Helwan.	115	+29 51 31.1	−2 5 21.77	−20.59	+29 41 31.4	9.999648
Herrsching (München)	534	+47 59 55	−0 44 43.6	− 7.35	+47 48 23	9.999231
Hongkong	33	+22 18 13.2	−7 36 41.25	−75.02	+22 10 5.8	9.999793
Hyderabad-Deccan[4]) .	554	+17 25 54.3	−5 13 48.98	−51.55	+17 19 17.7	9.999907
Innsbruck	605	+47 16 6.5	−0 45 31.42	− 7.48	+47 4 32.8	9.999254
Istanbul (Univ. Sternw.) .	65	+41 0 45	−1 55 52	−19.03	+40 49 16	9.999377
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	−0 46 20.22	− 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	−0 46 20.73	− 7.61	+50 44 54.5	9.999132
Johannesburg	1786	−26 10 52.1	−1 52 17.9	−18.45	−26 1 42.0	9.999839
Johannesburg (Fil. d. Yale Observ.)	1741	−26 11 14	−1 52 7	−18.42	−26 2 4	9.999836
Kairo	—	+30 4 38.2	−2 5 8.80	−20.56	+29 54 35.8	9.999635
Kalocsa[5])	102	+46 31 42.4	−1 15 54.34	−12.47	+46 20 7.6	9.999239
Karlsruhe[6])	110	+49 0 29.6	−0 33 35.40	− 5.52	+48 49 0.4	9.999177
Kasan (Univers.) . . .	79	+55 47 24.3	−3 16 29.03	−32.28	+55 36 36.6	9.999007
Kasan (Engelhardt) . .	98	+55 50 20.5	−3 15 15.74	−32.08	+55 39 33.2	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47.5	9.999108
Kiel Neuer Mer.-Kr. . . .	52	+54 20 27.6	−0 40 35.45	− 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kr. . . .	47	+54 20 28.5	−0 40 35.57	− 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kr.	184	+50 27 11.8	−2 2 0.56	−20.04	+50 15 48.3	9.999145
Kital	658	+39 8 1.7	−4 27 31.7	−43.95	+38 56 41.0	9.999465
Kodaikanal	2343	+10 13 50	−5 9 52.0	−50.94	+10 9 47.6	0.000114
Königsberg Reps. Mer.-Kr. [7]) .	22	+54 42 50.6	−1 21 58.98	−13.47	+54 31 53.8	9.999029
Konstanz[8])	420	+47 39 43.6	−0 36 42.01	− 6.03	+47 28 10.7	9.999232
Kopenhagen (Neue Sternw.)[9]) .	14	+55 41 12.6	−0 50 18.69	− 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania-Sternw.) .	10	+55 41 19.2	−0 50 9.11	− 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kr. . . .	221	+50 3 51.9	−1 19 50.28	−13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 56 31.58	− 9.28	+47 51 51.1	9.999219

[1]) Seit 1857, früher Seeberg. — [2]) Privatsternwarte von Ph. Fauth. — [3]) 1909 nach Bergedorf verlegt. — [4]) Nizamiah Observatory. — [5]) Erzbischöfl. Haynaldsche Sternwarte. — [6]) 1896 nach Heidelberg verlegt. — [7]) Nach 1898, vor 1898 0s01 westlich. — [8]) Privatsternwarte von E. Leiner. — [9]) Seit 1861 Nov. 11. Alte Sternwarte 20″3 südlich, 0s03 westlich.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kyoto (Astron. Inst.) . .	55	+35 1 37.1	−9 3 7.0	−89.22	+34 50 43.9	9.999525
Kyoto (Kwasan Observ.) .	220	+34 59 40.3	−9 3 10.24	−89.23	+34 48 47.4	9.999537
La Plata Mer.-Kr. Gautier	17	−34 54 30.3	+3 51 43.74	+38.07	−34 43 38.1	9.999525
Leiden (Neue Sternw.) Mer.-Kr.[1]) .	6	+52 9 19.8	−0 17 56.15	− 2.94	+51 58 5.2	9.999090
Leipzig (Neue Sternw.) Zentr.[2]) .	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.) .	1300	− 6 49 29.1	−7 10 27.81	−70.71	− 6 46 45.5	0.000068
Lemberg (Techn. Hochsch.) Pass. Instr.	340	+49 50 11.2	−1 36 3.40	−15.78	+49 38 45.0	9.999171
Leningrad (Petersburg) (Akad.) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Leningrad (Petersburg) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Lissabon (Tapada) . . .	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Sternw.) .	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Sternw.)[3])	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
London (Mill Hill) (Obs. of Univ.)	82	+51 36 46.3	+0 0 57.77	+ 0.16	+51 25 28.6	9.999109
Lourenço Marques . .	60	−25 58 5.5	−2 10 22.63	−21.42	−25 48 58.9	9.999725
Lübeck (Navig.-Sch.) . .	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Sternw. . .	34	+55 41 51.6	−0 52 44.97	− 8.66	+55 31 3.1	9.999006
Lüttich Ougrée . . .	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.5	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Observ.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	−5 20 59.65	−52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Sternw. .	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera . . .	120	+45 27 59.2	−0 36 45.89	− 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908
Mannheim Zentr. d. Sternw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif. . .	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) . .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (Neue Sternw.) Mer.-Kr.[4])	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
McDonald Observatory (Mount Locke)	2070	+30 40 13	+6 56 6.3	+68.36	+30 30 4	9.999763
Melbourne	28	−37 49 53.4	−9 39 54.17	−95.26	−37 38 39.9	9.999454
Merate (Filiale v. Mailand, Brera) .	380	+45 41 54.1	−0 37 42.85	− 6.20	+45 30 18.6	9.999279
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Middletown, Conn. . .	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	−9 24 31.46	−92.74	+38 56 42.7	9.999424
Modena.	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick) Mer.-Kr. .	1283	+37 20 25.3	+8 6 34.86	+79.94	+37 9 14.9	9.999552
Mt. Wilson Calif. . .	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

[1]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0ˢ.42 östlich. — [2]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4ˢ.00 westlich. — [3]) Alte Sternwarte 44″.0 nördlich, 17ˢ.1 östlich. — [4]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6ˢ.2 westlich; Seehöhe 29ᵐ.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[1]) . . .	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München (West-Kuppel) .	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8	−0 30 29.66	− 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999506
Neapel (Capo di Monte) .	154	+40 51 45.7	−0 57 1.40	− 9.37	+40 40 17.6	9.999387
Neuchâtel Refraktor . .	488	+46 59 49.5	−0 27 49.77	− 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)[2])	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd) .	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew Mer.-Kr. . .	55	+46 58 19.3	−2 7 53.98	−21.01	+46 46 45.1	9.999225
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290	+44 27 41.4	+6 12 35.94	+61.21	+44 16 5.9	9.999305
Oakland Californ.[4]) .	99	+37 47	+8 8 48	+80.30	+37 35 47	9.999460
Oak Ridge (Filiale d. Harvard Obs.)	183	+42 30 13	+4 46 14.2	+47.02	+42 18 40	9.999347
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa) .	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Oslo (Christiania) Mer.-Kr. .	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Ottawa Mer.-Kr. . . .	85	+45 23 39.1	+5 2 51.98	+49.75	+45 12 3.5	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 33.9	+0 5 3.0	+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi . .	140	+34 22 12.6	+5 58 7.18	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.2	−0 47 29.15	− 7.80	+45 12 25.6	9.999263
Palermo	72	+38 6 44.0	−0 53 25.87	− 8.78	+37 55 28.9	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	−0 9 20.93	− 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	−0 9 20.6	− 1.53	+48 37 48.2	9.999174
Peking	—	+39 54 23.0	−7 45 52.87	−76.53	+39 42 58.7	9.999401
Perkins Obs. (Delaware)	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410
Perth, West-Austr. . .	60	−31 57 10.7	−7 43 21.62	−76.12	−31 46 46.9	9.999597
Petersburg (Leningrad) (Akademie) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Petersburg (Leningrad) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Philadelphia[5])	74	+39 58 2.1	+5 1 6.88	+49.47	+39 46 37.5	9.999404
Pic du Midi (Filiale v.) (Toulouse) .	2850	+42 56 31.5	−0 0 34.29	− 0.09	+42 44 57.8	9.999518
Plonsk[6])	—	+52 37 40.0	−1 21 31.9	−13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	−0 55 23.07	− 9.10	+44 40 12.9	9.999277
Porto Alegre[7]) Mer.-Kr. .	—	−30 1 51	+3 24 53.2	+33.66	−29 51 49	9.999636
Posen	85	+52 23 48.6	−1 7 30.60	−11.09	+52 12 35.4	9.999090

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45″8 südlich, 1ˢ58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Flower Obs. (Univ. of Pennsylvania). — [6]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [7]) Observatorio Regional do Rio Grande do Sul.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam (Astrophys. Obs.).	97	+52 22 56.0	− 0 52 15.86	− 8.58	+52 11 42.7	9.999091
Potsdam (Geod. Inst.) Turm	99	+52 22 54.8	− 0 52 16.11	− 8.58	+52 11 41.5	9.999091
Poughkeepsie[1]) . . .	61	+41 41 18	+ 4 55 35.2	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm . .	197	+50 5 16.0	− 0 57 40.29	− 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	− 0 57 48	− 9.49	+49 52 59	9.999142
Princeton N. J. (N.Stw.)[2])	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence[3])	171	+41 49 46.4	+ 4 45 37.64	+46.92	+41 38 15.2	9.999363
Pulkowa Zentr. d. Stw. .	75	+59 46 18.5	− 2 1 18.57	−19.93	+59 36 12.3	9.998914
Pulsnitz[10])	284	+51 10 54.6	− 0 56 4.18	− 9.21	+50 59 34.6	9.999134
Quebec Canada . . .	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	− 0 14 0	+ 5 13 58.20	+51.58	− 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	− 1 36 28.11	−15.84	+56 46 30	9.998974
Rio de Janeiro. . . .	63	−22 54 23.7	+ 2 52 41.52	+28.37	−22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	−22 53 42.1	+ 2 52 53.6	+28.40	−22 45 24.7	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	− 0 49 55.36	− 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr. . .	65	+41 53 33.2	− 0 49 56.34	− 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr. [9])	100	+41 54 12.4	− 0 49 48.26	− 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri . .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
Saltsjöbaden (Stockholms Observator.)	55	+59 16 18	− 1 13 14	−12.03	+59 6 6	9.998924
San Fernando	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco[4]) . . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	−33 33 44.2	+ 4 42 46.0	+46.44	−33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	−33 26 25.4	+ 4 42 36.9	+46.42	−33 15 46.4	9.999600
Sétif	1120	+36 11 10	− 0 21 38.6	− 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.6	− 2 15 59.38	−22.34	+44 12 36.1	9.999312
Sofia (Mil. Geogr. Jnst.). .	555	+42 41 51	− 1 33 19.87	−15.33	+42 30 18	9.999368
Sofia (Universitätssternwarte)	572	+42 41 1.7	− 1 33 23.3	−15.34	+42 29 28.5	9.999369
Sonneberg (Hoffmeister) .	405	+50 21 29.5	− 0 44 42.87	− 7.34	+50 10 5.5	9.999163
Sonneberg (Erbisbühl). .	640	+50 22 41.4	− 0 44 46.19	− 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stalinabad (Tadjik Observ.)	—	+38 33 30	− 4 35 6.2	−45.19	+38 22 12	9.999434
Stará Dala[5])	113	+47 52 27.3	− 1 12 45.49	−11.95	+47 40 54.9	9.999206
Stockholm (Alte St.) M.-Kr.[6])	44	+59 20 32.7	− 1 12 13.97	−11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (N.St.). M.-Kr.[7])	144	+48 35 0.4	− 0 31 4.53	− 5.10	+48 23 29.9	9.999190
Swarthmore (Sproul Obs.) Refraktor	63	+39 54 16.2	+ 5 1 25.62	+49.52	+39 42 51.9	9.999405
Sydney	44	−33 51 41.1	−10 4 49.54	−99.36	−33 40 58.2	9.999551
Sydney (Riverview Coll. Obs.)	42	−33 49 45.7	−10 4 37.99	−99.33	−33 39 3.1	9.999552
Tacubaya[8])	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	− 1 46 53.19	−17.56	+58 12 25.1	9.998946
Taschkent Mer.-Kr. . . .	475	+41 19 31.6	− 4 37 10.88	−45.53	+41 8 2.0	9.999397

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [3]) Seagrave. Ladd Observatory 35″ nördlich, 1s.57 östlich. — [4]) Davidson Observatory. — [5]) Früher O-Gyalla. — [6]) Neue Sternwarte seit 1931 in Saltsjöbaden. — [7]) Seit Anfang 1881. — [8]) Seit März 1883, früher in Chapultepec. — [9]) 1933 nach Castel Gandolfo verlegt. — [10]) Privatsternwarte des Herrn Classen.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich — östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Teramo (Cerulli)	398	+42 39 27	— 0 54 55.8	— 9.02	+42 27 54	9.999358
Tokio Mer.-Kr.	57	+35 40 19	— 9 18 9.90	— 91.69	+35 29 21	9.999509
Toronto (Univ. Obs.) . .	110	+43 39 46.0	+ 5 17 34.70	+ 52.17	+43 28 11.2	9.999313
Toronto (Dunlap Obs.) . .	244	+43 51 46	+ 5 17 41.3	+ 52.19	+43 40 11	9.999317
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	— 0 1 58	— 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr. . . .	195	+43 36 44.0	— 0 5 51.01	— 0.96	+43 25 9.3	9.999329
Triest (R. Oss. Astr.) . . .	68	+45 38 35.5	— 0 55 4.92	— 9.05	+45 27 0.0	9.999259
Tsingtau (Met.-astr. Stat.).	—	+36 4 11.3	— 8 1 16.21	— 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.) .	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	— 0 30 47.15	— 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese) .	618	+45 2 16.3	— 0 31 6.52	— 5.11	+44 50 40.6	9.999312
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 1 10 30.13	— 11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht.	12	+52 5 9.5	— 0 20 31.6	— 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	— 0 23 19.91	— 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	— 0 49 22.12	— 8.11	+45 14 34.9	9.999261
Victoria B.C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau[1]) Zentr. d. Stw.	121	+52 13 4.6	— 1 24 7.25	— 13.82	+52 1 50.3	9.999097
Warschau[2])	—	+52 13 10	— 1 24 4.8	— 13.81	+52 1 56	9.999088
Warschau (Techn.Hochsch.)	144	+52 13 21.0	— 1 24 2.4	— 13.81	+52 2 6.8	9.999098
Washington (Alte Stw.) .	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) .	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.)	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[3])	127	—41 17 3.8	—11 39 4.27	—114.84	—41 5 34.3	9.999375
West Point N. Y. (N.Stw.)[4])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.) . . .	167	+48 12 35.5	— 1 5 31.61	— 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[5]) . . .	214	+48 12 53.8	— 1 5 25.17	— 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr.	240	+48 13 55.3	— 1 5 21.35	— 10.73	+48 2 23.8	9.999205
Wien (Ottakring)[6]) . . .	285	+48 12 46.7	— 1 5 10.97	— 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) .	211	+48 12 40.5	— 1 5 26.24	— 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule) .	198	+48 11 58.3	— 1 5 29.76	— 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	— 0 32 35.15	— 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[7]) .	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr. . . .	122	+54 40 59.1	— 1 41 8.76	— 16.61	+54 30 2.1	9.999036
Windhuk	—	—22 32	— 1 8 14	— 11.21	—22 24	9.999787
Wolfersdorf	279	+50 47 20.0	— 0 46 50.94	— 7.70	+50 35 58.0	9.999143
Zô-sè China	100	+31 5 47.6	— 8 4 44.75	— 79.63	+30 55 33.2	9.999619
Zürich Meridian-Kreis . .	468	+47 22 38.3	— 0 34 12.3	— 5.62	+47 11 4.8	9.999242

[1]) Universitäts-Sternwarte. — [2]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [3]) Dominion Observatory. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, 1ˢ.2 östlich. — [5]) von Oppolzers Sternwarte. — [6]) v. Kuffner. — [7]) Yerkes Observatory.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr. h m		
11 30	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina, Siam
5 30	—	Indien, Ceylon
4 0	—	Europ. Rußland*) von 40° bis 52° 30′ östl. Länge
3 0	—	Europ. Rußland*) westl. von 40° östl. Länge
2 45	—	Ostafrika
2 0	Osteuropäische Z.	Finnland, Estland, Lettland, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika, Südwest-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Norwegen, Schweden, Dänemark, Deutschland, Ungarn, Schweiz, Italien, Litauen, Polen, Tschechoslovakei, Jugoslavien, Kamerun
h m 0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Luxemburg, Portugal, Spanien, Gibraltar, Algerien
westl. Gr. h m		
1 0	—	Island, Madeira, Kanarische Inseln
2 0	—	Azoren, Kap Verdesche Inseln, Grönland-Scoresbysund
3 0	—	Ost-Brasilien, Grönland-Westküste und Angmagsalik
	—	Argentinien (1. Nov.—Ende Febr.)
	—	Uruguay (Nov.—März)
3 30	—	Uruguay (April—Okt.)
4 0	Atlantic St. Time	Mittel-Brasilien, Argentinien (1. März—31. Okt.), Canada (Küste), Paraguay, Chile
4 30	—	Venezuela
4 33	—	Bolivien
5 0	Eastern St. Time	Canada (Quebec, Ontario zwisch. 68° u. 90° westl.), Verein. Staat. (Ost-Zone), Panama, Peru, Ecuador, West-Brasilien, Columbien
6 0	Central St. Time	Zentral-Zone von Canada u. v. d. Verein. Staaten, Mexico, mit Ausnahme des nördl. Teiles
7 0	Mountain St. Time	Gebirgszone von Canada u. v. d. Verein. Staaten
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Columbien, nördl. Mexico
10 30	—	Hawaii (Sandwich Inseln)

*) Im Gebiet der Sowjet-Republiken sind alle Uhren 1 Stunde vorgestellt.

b) Nicht an den Meridian von Greenwich angeschlossen

	Meridian	Längendifferenz gegen Greenwich
Niederlande	Amsterdam	h m s 0 19 32.1 O.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind in Welt-Zeit ausgedrückt, wenn nicht ausdrücklich eine andere Zeit angegeben wird. **Welt-Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Welt-Zeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Welt-Zeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind gegeben als »Mittlere Sternörter«, bezogen auf das mittlere Äquinoktium des Jahresanfangs, und in Ephemeridenform als »Scheinbare Sternörter«, bezogen auf das instantane wahre Äquinoktium.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—29 und 100—108).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt-Zeit an jedem Tage:

1) Die Zeitgleichung = Wahre Zeit *minus* Mittlere Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzenreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.

4) Den geozentrischen Halbmesser der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit. In ihr sind, wie im Vorwort erwähnt, nur die langperiodischen Glieder der Nutation enthalten.

Um für einen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner mittleren Mitternacht zu erhalten, ist zu diesen Angaben hinzuzulegen: $9^s\!.8565\ \Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die Nutation in Rektaszension getrennt nach langperiodischen und kurzperiodischen Gliedern.

4) Die geozentrischen ekliptikalen Koordinaten λ, β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

5) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50°$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30°$ und $+60°$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 330*, 331* zu benutzen.

Auf S. 20—28 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen, geozentrischen, äquatorialen Sonnenkoordinaten für 0^h Welt-Zeit mit ihren ersten und zweiten Differenzen. Die gleichen Koordinaten, jedoch bezogen auf das Normaläquinoktium 1950.0, werden auf S. 100—108 gegeben.

Die Werte von X, Y, Z sind auf 6 Dezimalen gegeben. Die Ephemeriden bieten jedoch die Möglichkeit, die Sonnenkoordinaten auch auf 7 Dezimalen zu entnehmen. Zu diesem Zwecke füge man an die 6-stelligen Werte eine Null an und vereinige sie algebraisch mit den Werten von ΔX, ΔY, ΔZ. Ein ausführliches Beispiel hierfür ist im Jahrgang 1933, S. 362* gegeben.

Die gleichen Vorschriften gelten für die auf das Normaläquinoktium 1950.0 bezogenen Sonnenkoordinaten auf S. 100—108.

Am Fuß der Seite 28 finden sich die Zeiten für die Anfänge der Jahreszeiten und für die Erdnähe und Erdferne der Sonne.

Die Seite 29 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 30—48).

Die Mondephemeride (S. 30—47) gibt auf den linken Seiten für 0^h Welt-Zeit:

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0°\!.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50°$ Breite nebst Änderung für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen $+30°$ und $+60°$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 332*, 333* zu benutzen.

Seite 48 enthält die Zeitangaben für die Phasen und die Erdnähe und Erdferne des Mondes.

Ephemeriden der Großen Planeten (S. 49—99 und 109—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus, Neptun und Pluto von 4 zu 4 Tagen für 0^h Welt-Zeit mit ihren ersten Differenzen gegeben. Für die Planeten Merkur bis Neptun sind scheinbare, auf das momentane wahre Äquinoktium bezogene Örter gegeben. Die Örter von Pluto sind auf das mittlere Äquinoktium 1950.0 bezogen und sind nicht wegen Aberration korrigiert. Zur bequemeren Vergleichung der Beobachtungen mit der Ephemeride sind bei diesem Planeten Fixsternaberration und Lichtzeit in besonderen Spalten angeführt. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Die Örter von Pluto sind nach den Elementen XIX von E.C. Bower, Lick Observatory Bulletin 437, unter Berücksichtigung der Störungen durch Jupiter, Saturn, Uranus und Neptun berechnet.

Die scheinbaren Halbmesser in der Einheit der Entfernung sind:

Merkur	3.″34	Saturn (äquat.)	83.″33
Venus	8.41	» (polar)	74.57
Mars	4.68	Uranus	34.28
Jupiter (äquat.)	98.47	Neptun	36.56
» (polar)	91.91		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1950.0.

☊ und i stellen die Bahnlage für die Epoche 1950.0 und das Normaläquinoktium 1950.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist

noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 54 des *Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch trigonometrische Übertragung berechnet. Die jährlichen Veränderungen gelten für die Mitte des Jahres.

Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen sind, sofern nichts anderes bemerkt ist. Wo für einen Stern zwei Größen gegeben sind, beziehen sich diese auf die Komponenten eines Doppelsterns. Die in den Anmerkungen gegebenen Größen für Doppelsternkomponenten und für die Extrema der Veränderlichen sind dem »Henry Draper Catalogue« entnommen.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 579 Fixsternen (S. 26*—235*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 555 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ	Ceti	mit	0.″315
Nr. 127	ε	Eridani	»	0.310
Nr. 257	α	Can. maj.	»	0.371
Nr. 291	α	Can. min.	»	0.312
Nr. 295	β	Geminor.	»	0.101
Nr. 444	β	Leonis	»	0.101
Nr. 445	β	Virginis	»	0.101
Nr. 470	β	Can. ven.	»	0.107
Nr. 492	β	Comae	»	0.133
Nr. 538	α	Centauri	mit	0.″758
Nr. 667	μ	Herculis	»	0.111
Nr. 695	χ	Draconis	»	0.118
Nr. 699	α	Lyrae	»	0.124
Nr. 745	α	Aquilae	»	0.204
Nr. 793	61	Cygni pr.	»	0.300
Nr. 819	δ	Capricorni	»	0.114
Nr. 875	Br	3077	»	0.145

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des FK 3 besitzen noch folgende hinreichend verbürgte Parallaxen: Nr. 119 e Eridani 0".161, Nr. 135 δ Eridani 0".137, Nr. 217 γ Leporis 0".149 und Nr. 825 ε Indi 0".281.

Die Ephemeriden der auf S. 2*—24* eingeklammerten Sterne findet man im Almanaque Nautico.

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von sec δ und tg δ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden. Ferner sind hier die Größen a, b, a', b' enthalten, mit deren Hilfe die Nutationsglieder kurzer Periode leicht berechnet werden können. Man erhält $A'a + B'b$ in Zeitsekunden, $A'a' + B'b'$ in Bogensekunden.

Auf den Seiten 226*—235* sind die scheinbaren, rechtwinkligen Koordinaten von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0°$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos\delta \cos\alpha$, $y = \cos\delta \sin\alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Nutationsgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89° 1: L. Courvoisier: Beobachtungen des Sterns BD 89° 1 am großen Meridiankreis der Berliner Sternwarte. Astron. Nachr. Bd. **200**, 243,

für BD + 89° 3: L. Courvoisier: Ephemeriden der Polsterne BD 89° 3 und BD 89° 37 für 1923. Astron. Nachr. Bd. **217**, 319,

für BD + 89° 37: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD + 89° 37. Astron. Nachr. Bd. **230**, 71,

für CPD — 89° 38: Cape Annals Bd. **XI**, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Mit den an diesen Stellen gegebenen Werten findet man folgende mittlere Örter für 1940.0:

Name	Gr.	x	Jährliche Veränd. 1940.5	Jährliche Eigenbew.	y	Jährliche Veränd. 1940.5	Jährliche Eigenbew.
	M	"	"	"	"	"	"
BD+89° 1	10.56	— 279.89	—20.085	—0.024	+ 78.84	—0.073	—0.008
BD+89° 3	9.06	— 80.17	—20.240	—0.003	+863.56	—0.026	—0.006
BD+89° 37	10.06	—1061.57	—19.978	—0.011	—345.23	—0.225	+0.015
CPD—89° 38	9.5	— 26.22	+20.140	+0.027	—307.43	+0.027	+0.031

Reduktionsgrößen (S. 236*—276*).

Auf die scheinbaren Örter der Sterne folgt S. 236* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 237* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 256*—264* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Nutationsglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, log g, G, log h, H, log i und i, sowie f', g' und G' sind auf S. 238*—255* von Tag zu Tag für 0^h Welt-Zeit gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit Jahresanfang.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) ε = Mittlere Schiefe der Ekliptik.
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.
g) Die Koeffizienten j und k, welche in den Formeln auf S. 267* vorkommen.

Die wahre Schiefe erhält man durch Addition der Gesamtnutation ($\Delta\varepsilon + \Delta\varepsilon'$) zu der mittleren Schiefe.

Auf S. 265* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1940.0.

S. 266* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1940.0.

Auf S. 267* sind die Formeln zusammengestellt, mit welchen bei Anschlußbeobachtungen die gemessenen Koordinatendifferenzen der scheinbaren Örter in solche der mittleren Örter für den Jahresanfang übergeführt werden. Die in diesen Formeln auftretenden Koeffizienten j und k sind auf den Seiten 239*—255* enthalten und haben die Bedeutung

$$j = 15\,g \text{ arc } 1'$$
$$k = 15\,h \text{ arc } 1',$$

wobei g und h die auf den Seiten 238*—254* gegebenen Reduktionsgrößen sind.

S. 268* enthält eine Zusammenstellung der von der Deklination abhängenden Faktoren der Formeln auf S. 267*.

S. 269* enthält eine Tafel der numerischen Werte der Funktionen Sinus und Cosinus für in Zeit ausgedrückte Winkel. Ihre Benutzung erleichtert die Berechnung der Formeln auf S. 267*.

Die Seite 270* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1940.0 auf das Normaläquinoktium 1950.0. Man findet die auf das Normaläquinoktium 1950.0 bezogene Koordinatendifferenz, indem man an die auf das mittlere Äquinoktium 1940.0 bezogene Rektaszensionsdifferenz die differentielle Präzession Δp_α^s und an die Deklinationsdifferenz die differentielle Präzession $\Delta p_\delta''$ anbringt:

$$\Delta p_\alpha^s = a_1 \operatorname{tg}\delta \cdot \Delta\alpha^m + a_2 \tfrac{1}{15} \sec^2\delta \cdot \Delta\delta',$$
$$\Delta p_\delta'' = d_1 \cdot \Delta\alpha^m.$$

Die Koeffizienten a_1, a_2 und d_1 sind in der Tafel auf S. 270* enthalten und haben die Bedeutung:

$$a_1 = (n) \text{ arc } 1' \cos\alpha$$
$$a_2 = (n) \text{ arc } 1' \sin\alpha$$
$$d_1 = -15\ (n) \text{ arc } 1' \sin\alpha.$$

$\Delta\alpha^m$ und $\Delta\delta'$ sind die auf das mittlere Äquinoktium 1940.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf Seite 271* gegebenen Größen f, $\log g$ und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1950.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafeln auf S. 272* und 273* gegeben. Diese enthalten in der ersten Reihe einer jeden Vertikalspalte die Werte von 0.500 × Var. saec. für die mit den Argumenten α und δ gegebenen Örter. Die an zweiter Stelle stehenden

Zahlen einer jeden Vertikalspalte sind die einjährigen Änderungen von 0.500 × Var. saec. und sind, wenn erforderlich, bei der Entnahme des Einflusses der Variatio saecularis für den in Frage kommenden Bruchteil des Jahres zu berücksichtigen.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1940.0 auf das Normaläquinoktium 1950.0 befindet sich auf den Seiten 274*—276*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (n^s) \sin a$$
$$D = (n'') \cos a$$
$$B = (m^s) - 0.00001818\,(n^s)^2 \sin 2a$$
$$\varDelta C = \operatorname{arc} tg\, C - C; \quad C = A\, tg\,(\delta_{1940.0} + D)$$
$$P = -15\, tg\, \tfrac{1}{2}\psi; \quad tg\,\psi = \sin\,(n) \sin a\; tg\,(\delta_{1940.0} + D)$$
$$a = \alpha_{1940.0} + 90^0 - (N)$$

Wegen der Größen (m), (n), (N) vgl. S. [5] der „Grundbegriffe der Sphärischen Astronomie" im Jahrbuch für 1916. Falls die auf S. 276* gegebene Tafel für $\varDelta C$ und P nicht ausreicht, berechne man die Größen nach den vorstehend gegebenen Formeln oder benutze die weiterreichende Tafel in Veröff. d. Astronom. Rech.-Inst. Nr. 49.

Sonnenfinsternisse (S. 278*—281*).

Bei der Berechnung der Finsternisse des Jahres 1940 sind die Örter von Sonne und Mond um folgende Beträge verbessert worden:

1940 April 7	Sonne:	$\varDelta\alpha + 1''.4$	$\varDelta\delta + 0''.6$	Mond:	$\varDelta\alpha + 2''.0$	$\varDelta\delta\ \ 0''.0$
Oktober 1	„	$+1.4$	-0.6	„	$+2.0$	-1.2

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, log sin d, log cos d, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), log tang f ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x' und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1)\left\{\begin{aligned}
\xi &= c \cos\varphi \sin(\mu-\lambda)\\
\eta &= s \sin\varphi \cos d - c \cos\varphi \sin d \cos(\mu-\lambda)\\
\zeta &= s \sin\varphi \sin d + c \cos\varphi \cos d \cos(\mu-\lambda)\\
\xi' &= [7.6398-10]\; c \cos\varphi \cos(\mu-\lambda)\\
\eta' &= [7.6398-10]\; \xi \sin d,
\end{aligned}\right.$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 336* zu entnehmen sind.

Alsdann:

$$(2)\left\{\begin{aligned}
&\left.\begin{aligned} m \sin M &= x - \xi\\ m \cos M &= y - \eta \end{aligned}\right\}\ m > 0\\
&\left.\begin{aligned} n \sin N &= x' - \xi'\\ n \cos N &= y' - \eta' \end{aligned}\right\}\ n > 0
\end{aligned}\right.$$

Nun berechnet man aus:

(3) $L = l - \zeta \tan f$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

(4) $\sin \psi = \frac{m \sin (M - N)}{L}$ [1])

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

(5) $$\tau = -\frac{m \cos (M - N)}{n} + \frac{L \cos \psi}{n},$$

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen so lange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ usf. bis sich $\tau_n = 0$ ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left.\begin{aligned} p \sin \gamma &= \xi \\ p \cos \gamma &= \eta \end{aligned}\right\} p > 0$$

folgt, also

$$Q = P - \gamma.$$

Um die Zeit der größten Phase, $T_{\max}$, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte T_1 durchzurechnen, daraus $T_2 = T_1 - \frac{m \cos (M - N)}{n}$ zu entnehmen und die Rechnung solange fortzusetzen, bis die Korrektion der Ausgangszeit 0 wird. Als Näherungswert T_1 wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

---

[1]) Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90°$ aus $\tau = -\frac{m \cos (M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

Die Größe der Verfinsterung i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2\,L^{(a)} - 0.5450}$$

worin $L^{(a)}$ und m die zur Zeit $T_{\max}$ gehörigen Werte bedeuten.

Merkurdurchgang (S. 282*)

Bei der Berechnung des Merkurdurchganges ist keine Korrektion am Sonnenort angebracht worden.

Sternbedeckungen (S. 283*—290*).

Auf den Seiten 283*—290* sind Angaben über die Stern- und Planetenbedeckungen enthalten, die in Berlin-Babelsberg, Breslau, Frankfurt a. M., Königsberg und München sichtbar sind. Außer der genäherten Welt-Zeit des Ein- und Austrittes ist unter P der Positionswinkel des Sterns für die Zeiten der Berührung mit dem Mondrande angeführt.

Die Größen a und b ermöglichen die Vorausberechnung der genäherten Ein- oder Austrittszeiten für andere Orte innerhalb Deutschlands, die nicht allzuweit von den angeführten fünf Hauptpunkten entfernt sind. Bezeichnen λ und φ die geographischen Koordinaten des Beobachtungsortes, λ_0 und φ_0 diejenigen des ihm am nächsten gelegenen Hauptpunktes, so ist die gesuchte Berührungszeit gleich der für den Hauptpunkt geltenden $+ a\,(\lambda - \lambda_0) + b\,(\varphi - \varphi_0)$. Hierbei sind die Differenzen $\lambda - \lambda_0$ und $\varphi - \varphi_0$ in Einheiten des Grades unter Mitnahme der Zehntelgrade auszudrücken, damit sich die Korrektion in Zeitminuten ergibt.

Die Angaben über Sternbedeckungen sind von dem Nautical Almanac Office, London, zur Verfügung gestellt worden.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 291*).

Auf S. 291* finden sich:

- ☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik,
- $L_☾$, Mittlere Länge des Mondes,
- $\tilde{\omega}$, Mittlere Länge des Perigäums
- $M_☾$, Mittlere Anomalie des Mondes,
- i, Neigung des Mondäquators gegen den Erdäquator,
- Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator,
- ☊′, Aufsteigender Knoten des Mondäquators auf dem Erdäquator,

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180^\circ.$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet.

Die Größen i, Δ und Ω' berechnen sich aus:

$$\sin\frac{1}{2}(\Delta+\Omega')\cos\frac{1}{2}i=\cos\frac{1}{2}(\varepsilon-J)\sin\frac{1}{2}\mho$$

$$\cos\frac{1}{2}(\Delta+\Omega')\cos\frac{1}{2}i=\cos\frac{1}{2}(\varepsilon+J)\cos\frac{1}{2}\mho$$

$$\sin\frac{1}{2}(\Delta-\Omega')\sin\frac{1}{2}i=\sin\frac{1}{2}(\varepsilon-J)\sin\frac{1}{2}\mho$$

$$\cos\frac{1}{2}(\Delta-\Omega')\sin\frac{1}{2}i=\sin\frac{1}{2}(\varepsilon+J)\cos\frac{1}{2}\mho;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. **199**, S. 263) zu $J=1^\circ\,32'\,20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 291* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen $L_☉$ und $M_☉$ auf S. 29, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 8 (S. 364*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ρ, σ haben die Werte:

$$\tau=-\;13''\sin M_☾+65''\sin M_☉+26''\sin 2(L_☾-M_☾-\Omega)$$

$$\rho=-106''\cos M_☾+34''\cos(2L_☾-M_☾-2\Omega)-11''\cos 2(L_☾-\Omega)$$

$$\sigma\sin J=-108''\sin M_☾+34''\sin(2L_☾-M_☾-2\Omega)-11''\sin 2(L_☾-\Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f=0.73$, worüber F. Hayn (Astr. Nachr. Bd. **199**, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.

(S. 292*—296*).

Die Ephemeride des Mondkraters Mösting A. dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 0^h Welt-Zeit und enthält für die Tage, an welchen Mösting A. innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾-\alpha_k$ in Rektaszension und $\delta_☾-\delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des

Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und log sin p_k mit der Beobachtungszeit. Fügt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ zum geozentrischen Ort des Kraters hinzu (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A. angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_☾ - \alpha'_k$ und $\delta'_☾ - \delta'_k$ zwischen Mondmittelpunkt und Mösting A. aus folgenden Identitäten:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$
$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A. mit den mikrometrischen Messungen zwischen Mösting A. und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_☾$ und $\delta'_☾$ und den Angaben auf S. 291* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A. angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_☾) \cos \tfrac{1}{2} (\delta' + \delta'_☾)$$
$$s \cos \pi_m = \delta' - \delta'_☾$$
$$\pi = \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_☾) \sin \tfrac{1}{2} (\delta' + \delta'_☾)$$
$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″59 (nach J. Peters, Astr. Nachr. Bd. **138**, S. 147) eingesetzt werden.

$$\sin d = -\sin \delta'_☾ \cos K + \cos \delta'_☾ \sin K \cos \pi$$
$$\cos d \cos (a - \alpha'_☾) = -\cos \delta'_☾ \cos K - \sin \delta'_☾ \sin K \cos \pi$$
$$\cos d \sin (a - \alpha'_☾) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - ☊')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - ☊')$$
$$\cos \beta \cos \lambda' = \cos d \cos (a - ☊')$$
$$\lambda = \lambda' - 180° - L_☾ - (\Delta - ☋).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_{☾} - 65'' \sin M_{\odot} - 26'' \sin 2 (L_{☾} - M_{☾} - \Omega)$$
$$+ \operatorname{tg}\beta [-106'' \cos (L_{☾} - M_{☾} - \Omega + \lambda)$$
$$+ 34'' \cos (L_{☾} - M_{☾} - \Omega - \lambda) - 11'' \cos (L_{☾} - \Omega - \lambda)]$$
$$d\beta = +108'' \sin (L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \sin (L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \sin (L_{☾} - \Omega - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A. liegen folgende von F. Hayn ermittelte Konstanten (Astr. Nachr. Bd. **199**, S. 263) zugrunde:

$$\lambda_0 = -5° \; 10' \; 7'', \quad \beta_0 = -3° \; 11' \; 2''$$
$$h = 15' \; 33''.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_{☾} + 65'' \sin M_{\odot} + 26'' \sin 2 (L_{☾} - M_{☾} - \Omega)$$
$$d\beta = -107'' \sin (L_{☾} - M_{☾} - \Omega + \lambda_0) - 34'' \sin (L_{☾} - M_{☾} - \Omega - \lambda_0)$$
$$+ 11'' \sin (L_{☾} - \Omega - \lambda_0),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A. sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 297*—298*).

Die Seiten 297* und 298* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 299*—300*, 303*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_α Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach H. Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887
Äquatorial $17''.47$ Polar $15''.65$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35$$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25 nach G. Struve

$$\Omega_1 = 167^\circ\ 58'.08 \quad \text{und} \quad i_1 = 28^\circ\ 4'.55$$

Saturnstrabanten (S. 301*—310*).

Die Berechnungen der Saturnstrabanten Mimas bis Rhea sind mit den von G. Struve in den Veröffentlichungen der Universitätssternwarte Berlin-Babelsberg, Bd. VI, Heft 4 abgeleiteten Elementen durchgeführt worden. Für Titan und Japetus sind die von ihm in Bd. VI, Heft 5 angegebenen Elemente benutzt worden, und für Hyperion haben die von J. Woltjer in den Annalen der Sternwarte Leiden, Bd. 16, Teil 3 bestimmten Elemente als Grundlage gedient.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (Berlin-Bbg. VI, Heft 4)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 127° \; 5'.5$

$n = 381°.994442$

$\delta l = -44°.390 \sin [5°.0864 (\tau - 1866.27)]$
$\quad - 0°.764 \sin 3 [5°.0864 (\tau - 1866.27)]$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 56°.1 - 365°.23\, t$

$\gamma = 1° \; 31'.0$

$\Pi_1 = 105°.0 + 365°.60\, t$

$e = 0.0201$

$a = 26''.826$

ENCELADUS (Berlin-Bbg. VI, Heft 4)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 199° \; 25'.8$

$n = 262°.7319405$

$\delta l = +14'.39 \sin (\;63°.75 + 32°.51\, t)$
$\quad + 14'.06 \sin (117°.28 + 93°.14\, t)$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 51°.81 - 152°.7\, t$

$\gamma = 1'.4$

$\Pi_1 = 308°.38 + 123°.43\, t$

$e = 0.00444$

$a = 34''.416$

TETHYS (Berlin-Bbg. VI, Heft 4)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 284° \; 28'.3$

$n = 190°.697950$

$\delta l = +2°.065 \sin [5°.0864 (\tau - 1866.27)]$
$\quad + 0°.036 \sin 3 [5°.0864 (\tau - 1866.27)]$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 110°.39 - 72°.25\, t$

$\gamma = 1° \; 5'.56$

$e = 0.0000$

$a = 42''.605$

DIONE (Berlin-Bbg. VI, Heft 4)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 253° \; 52'.0$

$n = 131°.5349729$

$\delta l = -0'.93 \sin (\;63°.75 + 32°.51\, t)$
$\quad - 0'.91 \sin (117°.28 + 93°.14\, t)$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 201^\circ\!.0 - 31^\circ\!.0\, t$
$\gamma = 1'\!.4$
$\Pi_1 = 173^\circ\!.4 + 30^\circ\!.75\, t$
$e = 0.00221$
$a = 54''\!.567$

RHEA (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 358^\circ\ 23'\!.7$
$n = 79^\circ\!.6900881$
$l = E_0 + nt_d$
$(\Omega - \Omega_1) \sin i_1 = 20'\!.49 \sin (344^\circ\!.09 - 10^\circ\!.20\, t) - 0'\!.38 + 1'\!.00 \sin (48^\circ\!.5 - 0^\circ\!.50\, t)$
$i - i_1 = 20'\!.49 \cos (344^\circ\!.09 - 10^\circ\!.20\, t) - 2'\!.79 + 1'\!.00 \cos (48^\circ\!.5 - 0^\circ\!.50\, t)$
$\Pi = 275^\circ\!.85 + 0^\circ\!.53\, t + 17^\circ\!.64 \sin [9^\circ\!.5\, (\tau - 1879.59)]$
$e = 0.00098 + 0.00030 \cos [9^\circ\!.5\, (\tau - 1879.59)]$
$a = 76''\!.203$
Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

TITAN (Berlin-Bbg. VI, Heft 5)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 260^\circ\ 24'\!.26$
$n = 22^\circ\!.577015$
$l = E_0 + nt_d + (E - E_0)$
$E - E_0 = + 4'\!.39 \sin (40^\circ\!.69 - 0^\circ\!.506\, t)$
$\Omega = 167^\circ\ 51'\!.90 + 39'\!.00 \sin (40^\circ\!.69 - 0^\circ\!.506\, t)$
$i = 27^\circ\ 26'\!.33 + 18'\!.35 \cos (40^\circ\!.69 - 0^\circ\!.506\, t)$
$\Pi = 276^\circ\ 7'\!.7 + 31'\!.41\, t + 22'\!.0 (\sin 2g - \sin 2g_0)$
$e = 0.02910 + 0.000186 (\cos 2g_0 - \cos 2g)$
$g = \Pi - \Omega - 4^\circ\!.5$
$g_0 = g$ für $t = 0$
$a = 176''\!.578$

HYPERION (J. Woltjer, Ann. Sternwarte Leiden Bd. XVI, 3, S. 64)
Anfangsepoche für t_d: 1900 Januar 0.0 Mittl. Zt. Grw.
" " t : 1900.0
Argumente: $\sigma = 93^\circ\!.13 + 0^\circ\!.562039\, t_d$ $\quad \tilde{\omega} = 148^\circ\!.72 - 19^\circ\!.184\, t$

$n = 16^\circ\!.9199896$
$l = 176^\circ\!.293 + 16^\circ\!.9199896\, t_d + 9^\circ\!.092 \sin \sigma + 0^\circ\!.211 \sin (\tilde{\omega} + \sigma) + 0^\circ\!.192 \sin (\tilde{\omega} - \sigma) - 0^\circ\!.077 \sin \tilde{\omega}$
$\Pi = 70^\circ\!.05 - 18^\circ\!.6562\, t - 13^\circ\!.67 \sin \tilde{\omega} + 0^\circ\!.93 \sin 2\tilde{\omega} - 0^\circ\!.47 \sin \sigma$
$e = 0.10419 + 0.02414 \cos \tilde{\omega} - 0.00401 \cos \sigma - 0.00183 \cos 2\tilde{\omega} + 0.00009 \cos (\tilde{\omega} - \sigma) - 0.00009 \cos (\tilde{\omega} + \sigma)$
$a = 214''\!.32 - 0''\!.74 \cos \sigma$

$$\gamma \sin h = -0\overset{\circ}{.}061 + 0\overset{\circ}{.}574 \sin[-2\overset{\circ}{.}392\, t + 95\overset{\circ}{.}9\,] + 0\overset{\circ}{.}315 \sin[-0\overset{\circ}{.}500\, t + 42\overset{\circ}{.}78]$$

$$\gamma \cos h = -0\overset{\circ}{.}747 + 0\overset{\circ}{.}574 \cos[-2\overset{\circ}{.}392\, t + 95\overset{\circ}{.}9\,] + 0\overset{\circ}{.}315 \cos[-0\overset{\circ}{.}500\, t + 42\overset{\circ}{.}78]$$

γ = Neigung der Bahnebene gegen den Saturnsäquator,
h = Länge des aufsteigenden Knotens auf dem Saturnsäquator, gezählt vom aufsteigenden Knoten des Saturnsäquators auf der Ekliptik.

JAPETUS (Berlin-Bbg. VI, Heft 5)
Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$E_0 = 75° \; 25'.61$ $\qquad$ $i = 18° \; 26'.39 - 0'.54\, t$
$n = 4\overset{\circ}{.}537995$ $\qquad$ $\Pi = 354° \; 27'.4 + 8'.1\, t$
$l = E_0 + n t_d$ $\qquad$ $e = 0.02828$
$\Omega = 142° \; 11'.3 - 1'.375\, t$ $\qquad$ $a = 514''.59$

Hierin bedeuten:

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
τ = Epoche
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\Delta) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Auf den Seiten 301*—303* sind die Hilfsmittel gegeben, um in bequemer Weise die Positionen der Trabanten ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

$(\Delta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, Δ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

$\log \frac{1}{1+\zeta}$ ist auf Seite 303* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u - U) + \sin\gamma \operatorname{cotg} B \sin(u - \vartheta)].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich für die fünf inneren Trabanten auf Seite 303*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$
$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$
$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 304*—306* finden sich, außer den Hilfsgrößen U, B und P, für die Trabanten Titan, Hyperion und Japetus die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet für die beiden letzteren Trabanten.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 307*—310* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen ($u - U = 0°, 180°$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 311*—312*).

In der Übersicht der Konstellationen des Jahres 1940 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen sich

die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Die Angaben über Konjunktion und Opposition der Planeten mit der Sonne entsprechen den Zeiten, zu denen der Längenunterschied zwischen Planet und Sonne 0° oder 180° ist.

Hilfstafeln (S. 313*—336*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 313*—315*).

a) Präzession in Rektaszension und Deklination (Seite 313*)

$$p_\alpha = m + \tfrac{1}{15} n \sin\alpha \operatorname{tg}\delta$$
$$p_\delta = n \cos\alpha$$

b) Präzessionswerte m, n, ψ, π, Π und ε, die mittlere Schiefe der Ekliptik (Seite 313*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_\Omega = \psi - \pi \operatorname{cotg} i \sin(\Pi - \Omega)$$
$$p_i = -\pi \cos(\Pi - \Omega)$$
$$p_\omega = \pi \operatorname{cosec} i \sin(\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \operatorname{cotg} i' \cos\Omega'$$
$$p_{i'} = -n \sin\Omega'$$
$$p_{\omega'} = n \cos\Omega' \operatorname{cosec} i'$$

c) Präzession in Länge und Breite (Seite 314*—315*).

$$p_\lambda = \psi + \pi \operatorname{tg}\beta \cos(\Pi - \lambda)$$
$$p_\beta = \pi \sin(\Pi - \lambda)$$

Den Tafeln a) und c) liegen die Präzessionswerte für 1950.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 316*, 318*) und von Sternzeit in Mittlere Zeit (S. 317*, 319*).

3) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 320*—321*).

4) Eine Tafel für die Ermittelung eines Datums in der Julianischen Periode (Seite 322*—326*). Die Tafel besteht aus zwei Teilen. Der erste Teil (S. 322*—323*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julia

nischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 324*—326*) gibt für die Jahre 1860—1979 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

5) Eine Tafel zur Verwandlung von Minuten und Sekunden in Dezimalteile des Grades und umgekehrt (S. 327*).

6) Tafel des halben Tagbogens (S. 328*—329*), berechnet mit der Horizontalrefraktion 34′.9 für geographische Breiten von $+30°$ bis $+60°$ und Deklinationen von $-30°$ bis $+30°$.

7) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 330*—333*). Sie geben die Reduktion der für $+50°$ Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen $+30°$ und $+60°$ und sind für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

8) Die Tafel zur Berechnung der optischen Mondlibration (S. 334*—335*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\operatorname{arc} 1'} \operatorname{tang}^2 \frac{1}{2} J \sin 2 (\lambda - \Omega)$$
$$a = -\cos(\lambda - \Omega) \sin J$$
$$\operatorname{tang} B = -\sin(\lambda - \Omega) \operatorname{tang} J$$

J = Neigung des Mondäquators gegen die Ekliptik.
Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 291*).
λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_☾$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_☾ + \Delta\lambda - a(B - \beta)$$
$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_☾ + l' + \Delta - ☋)}{\cos \delta_☾} = -\sin i \frac{\cos(\alpha_☾ - \Omega')}{\cos b'},$$

worin $\alpha_☾$, $\delta_☾$ Rektaszension und Deklination des Mondmittelpunktes gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ☋ und Ω' haben schon auf S. 354* ihre Erklärung gefunden.

9) Eine Tafel der Hilfsgrößen s und c (S. 336*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ρ eines

Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1-e^2}{\sqrt{1-e^2\sin^2\varphi}}, \quad c = \frac{1}{\sqrt{1-e^2\sin^2\varphi}}, \quad e = \sqrt{2\,\mathfrak{a} - \mathfrak{a}^2}.$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\mathfrak{a} = \frac{1}{297}$ angenommen.

Koordinaten der Sternwarten (S. 337*—343*).

Die Seiten 337*—343* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend ist die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit in mittlerer Mitternacht minus Greenwicher Sternzeit in mittlerer Mitternacht.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297 berechnet.

Bei Berechnung von log ϱ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 344*).

Auf S. 344* sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

Berichtigungen

Jahrbuch 1939, S. 309*. Japetus, Deklination: Die Differenz zwischen Dez. 3 u. 5 ist +11 anstatt +1.

S. 316*. Aug. 17 8^h lies ♀ anstatt ☿ im Perihel.

Jahrbuch 1940, S. 2*—24*. Zusatzkorrektionen für die Örter des FK 3 siehe S. 366*.

S. 8*. Stern 279) δ Geminorum. Die Eigenbewegung in Deklination ist −14 anstatt −41.

Zusatzkorrektionen

für die Örter des FK 3 für 1940.0

$\Delta\alpha$ in $0^{s}.001$ $\Delta\delta$ in $0''.01$

Nr.	Δα	Δδ	Nr.	Δα	Δδ	Nr.	Δα	Δδ	Nr.	Δα	Δδ
2	+1	—	**221**	−1	—	440	+1	—	**660**	−1	—
8	+4	—	**225**	−1	—	442	+1	—	661	−1	—
10	+1	—	233	−2	—	443	+1	—	675	+1	—
11	+3	—	234	−3	—	448	+3	—	678	−6	—
16	+1	—	**237**	−1	—	451	+3	—	686	−1	—
21	+1	—	247	−1	—	454	+3	—	698	−3	—
24	+3	—	248	−11	+1	**455**	+1	—	700	+1	—
26	+1	—	259	−2	—	459	+5	—	704	−1	—
29	+1	—	260	−6	+1	**467**	+1	—	**708**	−1	—
31	+1	—	264	+4	—	**468**	+1	—	**715**	−1	—
32	+1	—	**265**	−1	—	469	+2	—	721	−1	—
34	+1	—	**280**	−1	—	472	+1	—	734	—	−1
41	+9	−1	284	−2	+1	474	+1	—	748	−1	—
46	+1	—	300	−2	+1	480	+1	—	754	−1	−1
48	+1	—	310	−1	+1	**481**	+1	—	759	−2	—
51	+3	−1	317	—	+1	487	+2	—	**764**	−1	−1
53	−3	—	318	−1	—	493	+1	+1	770	−1	—
55	+1	−1	322	—	+1	503	+4	+1	775	—	−1
63	—	−1	331	−3	—	**504**	+1	—	787	+2	−1
70	+2	−1	338	—	+1	518	+1	—	795	−3	—
72	+1	—	344	+1	+1	524	−3	—	805	+1	−1
76	+1	−1	355	+1	+1	530	+1	+1	809	−1	—
87	+2	−1	357	+1	+1	542	+5	+2	810	+5	−1
90	−5	—	362	−1	—	550	−1	—	817	−1	—
92	—	−1	363	+1	—	560	—	+1	820	+2	−1
105	+4	−2	**368**	—	+1	565	−1	—	**824**	—	−1
108	—	−1	372	+2	+1	567	—	+1	839	+14	−2
113	−1	—	387	+1	—	569	−1	—	841	+1	—
115	+2	−2	**394**	+1	—	574	—	+1	**846**	+1	—
129	−1	—	395	+5	—	589	—	+1	865	+2	—
138	−1	−1	**398**	+1	—	590	−2	+1	**872**	+1	—
145	−1	−1	**400**	+1	—	**600**	−1	—	874	+1	—
146	−1	—	401	−2	—	602	−1	—	876	+1	—
166	—	−1	403	+1	—	606	−1	—	**877**	+1	—
173	−4	−1	411	−3	—	610	−1	+1	882	+1	—
178	−1	—	413	+7	—	611	−5	+1	**889**	+1	—
182	−1	—	**416**	+1	—	612	−1	—	893	+2	—
183	−1	—	417	+1	—	625	−2	—	895	+1	—
191	−10	−1	429	+1	—	**632**	−1	—	**901**	+1	—
203	−1	—	433	+2	—	642	−3	—	903	+1	—
205	−5	—	436	+1	—	**645**	−1	—	904	+3	—
214	+1	—	438	+1	—	648	−1	—			

Die Sterne liegen über ± 60° Deklination mit Ausnahme der durch halbfetten Druck der Nummern kenntlich gemachten Sterne. Die Ephemeriden des Jahrbuches sind entsprechend zu verbessern.

Zusatzsterne

des

Dritten Fundamentalkatalogs

Mittlere Örter und Eigenbewegungen für 1940.0—1943.0



Bemerkung: Die Zeitminuten und Grade der Örter sind für die vier Jahre nur einmal gegeben, wobei die Zeitsekunden bzw. Bogenminuten nötigenfalls über 60^s bzw. $60'$ erhöht wurden. In den letzteren Fällen sind die Zeitminuten bzw. die Grade durch einen * gekennzeichnet.

Die jährlichen Eigenbewegungen in den Spalten 7 und 12 gelten für 1940.0. Falls die Werte sich bis 1943.0 ändern, sind diese in den Fußnoten enthalten.

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.s0001	Deklination 1940	1941	1942	1943	μ' in 0."001
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1001	45 G. Tucn	0 1 39.878	42.931	45.982	49.033	+ 93	−71 46 15.10	45 55.07	45 35.04	45 15.02	− 16
1002	33 Pisc	0 2 15.818	18.888	21.959	25.030	− 8	− 6 2 35.11	2 14.97	1 54.83	1 34.69	+ 97
1003	9 G. Ceti	0 3 45.963	49.034	52.105	55.175	+ 73	−23 26 27.03	26 7.03	25 47.03	25 27.03	− 40
1004	χ Pegs	0 11 29.617	32.720	35.824	38.929	+ 65	+19 52 23.34	52 43.36	53 3.38	53 23.41	+ 5
1005	σ Andr	0 15 11.127	14.260	17.393	20.526	− 56	+36 27 10.13	27 30.09	27 50.05	28 10.02	− 35
1006	Pi 0h 38	0 15 29.878	33.010	36.143	39.276	+ 47	+31 11 3.36	11 23.36	11 43.36	12 3.36	+ 4
1007	−18° 41	0 17 0.445	3.490	6.536	9.582	+ 50	−18 1 59.73	1 39.74	1 19.74	0 59.74	+ 9
1008	41 Pisc	0 17 30.442	33.529	36.616	39.703	− 4	+ 7 51 25.87	51 45.87	52 5.87	52 25.87	+ 15
1009	ρ Andr	0 17*57.189	60.348	63.507	66.666	+ 49	+37 38 11.25	38 31.19	38 51.14	39 11.09	− 34
1010	44 Pisc	0 22 19.519	22.594	25.670	28.746	− 9	+ 1 36 27.44	36 47.38	37 7.32	37 27.25	− 10
1011	Pi 0h 78	0 24*57.842	60.887	63.932	66.977	+ 30	−11 59 25.88	59 5.97	58 46.07	58 26.16	− 15
1012	48 Pisc	0 25 5.418	8.535	11.651	14.768	+ 11	+16 6 48.43	7 8.34	7 28.26	7 48.17	− 11
1013	77 G. Scul	0 30 43.087	46.055	49.023	51.991	− 21	−29 53 19.45	52 59.62	52 39.79	52 19.96	− 32
1014	58 G. Phoe	0 31 36.818	39.674	42.529	45.385	+ 241	−52 42 15.76	41 55.87	41 35.98	41 16.09	+ 40
1015	μ Phoe	0 38 29.624	32.460	35.295	38.130	− 26	−46 24 50.42	24 30.65	24 10.88	23 51.11	+ 11
1016	Lac 181	0 39 43.391	46.293	49.195	52.096	− 18	−36 21 4.23	20 44.48	20 24.73	20 4.98	+ 10
1017	70 G. Phoe	0 42 7.071	9.908	12.746	15.583	− 79	−42*60 11.23	59 51.62	59 32.02	59 12.41	− 100
1018	79 G. Ceti	0 45 2.954	5.923	8.892	11.861	+ 17	−22 2 58.64	2 39.00	2 19.35	1 59.70	− 9
1019	96 G. Pisc	0 45 13.979	17.126	20.272	23.419	+ 505	+ 4 58 20.74	58 39.26	58 57.77	59 16.28	−1141
1020	64 Pisc	0 45 49.263	52.415	55.567	58.720	− 2	+16 37 1.40	37 20.85	37 40.29	37 59.74	− 197
1021	ν Andr	0 46 29.739	33.046	36.353	39.661	+ 15	+40 45 9.09	45 28.71	45 48.32	46 7.93	− 17
1022	20 Ceti	0 49*56.380	59.446	62.512	65.578	+ 3	− 1 28 11.01	27 51.46	27 31.90	27 12.35	− 13
1023	68 Pisc	0 54 34.905	38.150	41.396	44.643	+ 2	+28 40 5.71	40 25.18	40 44.65	41 4.11	− 7
1024	98 G. Ceti	0 55 43.334	46.372	49.411	52.449	+ 3	− 6 12 18.59	11 59.21	11 39.83	11 20.46	− 73
1025	101 G. Ceti	0 58 39.992	42.970	45.947	48.925	+ 55	−16 35 12.06	34 52.74	34 33.43	34 14.11	− 71
1026	σ Scul	0 59 34.572	37.437	40.302	43.167	+ 57	−31 52 28.63	52 9.24	51 49.86	51 30.47	+ 17
1027	80 G. Phoe	0 59 29.802	32.340	34.878	37.415	− 2	−57 19 30.19	19 10.79	18 51.39	18 31.99	+ 29
1028	72 Pisc	1 1*55.057	58.224	61.390	64.557	+ 4	+14 37 25.90	37 45.28	38 4.65	38 24.02	+ 59
1029	106 G. Ceti	1 3 13.402	16.309	19.216	22.122	− 19	−24 18 46.07	18 26.83	18 7.59	17 48.35	− 42
1030	μ Cass	1 4 15.738	19.726	23.715	27.704	+3937 [1]	+54 37 36.27	37 53.96	38 11.64	38 29.33	−1572 [2]
1031	υ Phoe	1 5 3.554	6.296	9.038	11.779	+ 35	−41 48 26.83	48 7.59	47 48.34	47 29.10	+ 4
1032	χ Pisc	1 8 13.387	16.611	19.835	23.059	+ 26	+20 42 58.20	43 17.36	43 36.51	43 55.67	− 5
1033	ζ Pisc *pr*	1 10 35.587	38.721	41.855	44.990	+ 95	+ 7 15 30.87	15 49.92	16 8.97	16 28.02	− 50
1034	89 Pisc	1 14 42.063	45.158	48.252	51.346	− 35	+ 3 17 56.59	18 15.56	18 34.53	18 53.49	− 19
1035	ξ Andr	1 18 47.791	51.321	54.852	58.383	+ 31	+45 12 54.07	13 12.95	13 31.82	13 50.70	+ 11
1036	109 G. Scul	1 20 43.515	46.307	49.100	51.892	− 5	−31 15 27.86	15 9.09	14 50.31	14 31.54	− 37
1037	138 G. Ceti	1 21 45.654	48.702	51.751	54.799	+ 11	− 3 9 37.43	9 18.67	8 59.92	8 41.17	− 26
1038	9 G. Hydi	1 23 0.918	2.993	5.068	7.143	+ 27	−64 40 51.88	40 33.15	40 14.42	39 55.69	− 10
1039	94 Pisc	1 23 26.897	30.136	33.376	36.616	+ 31	+18 55 48.29	56 6.96	56 25.63	56 44.30	− 57
1040	ω Andr	1 24 3.239	6.825	10.412	13.999	+ 321	+45 5 51.53	6 10.14	6 28.75	6 47.36	− 100
1041	47 Ceti	1 23*53.880	56.841	59.801	62.762	+ 12	−13 22 4.37	21 45.65	21 26.92	21 8.20	+ 12
1042	38 Cass	1 26 43.743	48.196	52.651	57.108	+ 263	+69 57 24.33	57 42.88	58 1.43	58 19.98	− 70
1043	48 Ceti	1 26 43.431	46.309	49.187	52.065	+ 40	−21 56 20.96	56 2.32	55 43.69	55 25.06	+ 9
1044	δ Phoe	1 28 45.322	47.820	50.319	52.816	+ 137	−49 23 2.16	22 43.44	22 24.72	22 6.00	+ 162
1045	υ Andr	1 33 15.929	19.448	22.968	26.488	− 153	+41 6 22.02	6 40.05	6 58.08	7 16.10	− 378
1046	π Pisc	1 33*54.820	58.000	61.181	64.361	− 46	+11 50 7.32	50 25.76	50 44.18	51 2.61	+ 48
1047	+34° 297	1 38 34.876	38.343	41.809	45.276	+ 38	+34 56 36.67	56 54.86	57 13.04	57 31.22	− 30
1048	π Scul	1 39 26.119	28.826	31.533	34.240	− 62	−32 37 43.69	37 25.52	37 7.35	36 49.18	− 15
1049	175 G. Ceti	1 39 41.373	44.407	47.441	50.475	− 1	− 3 59 30.22	59 12.08	58 53.93	58 35.79	− 32
1050	4 Aris	1 44*55.348	58.601	61.855	65.108	+ 34	+16 39 27.11	39 45.06	40 3.01	40 20.95	− 29

[1]) μ ab 1942.0: +0.s3938   [2]) μ' für 1943.0: −1."573

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0s.0001	Deklination 1940	1941	1942	1943	μ' in 0".001
		h m s	s	s	s		° ' "	' "	' "	' "	
1051	χ Ceti	1 46 38.183	41.129	44.076	47.022	− 103	−10 58 56.94	58 39.12	58 21.30	58 3.48	− 90
1052	2 Pers	1 48 19.510	23.322	27.135	30.949	+ 12	+50 29 49.78	30 7.60	30 25.42	30 43.24	− 23
1053	φ Phoe	1 51*52.664	55.153	57.642	60.131	− 38	−42 47 26.38	47 8.70	46 51.01	46 33.34	− 18
1054	4 Pers	1 58 17.376	21.367	25.359	29.352	+ 37	+54 11 54.82	12 12.26	12 29.69	12 47.11	+ 3
1055	ν Forn	2 1 48.055	50.744	53.433	56.122	+ 4	−29 35 2.57	34 45.28	34 28.00	34 10.72	+ 9
1056	15 Aris	2 7 17.704	21.029	24.354	27.679	+ 62	+19 13 5.67	13 22.68	13 39.68	13 56.68	− 23
1057	19 Aris	2 9 46.644	49.916	53.188	56.460	+ 66	+14 59 58.46	60 15.36	60 32.25	60 49.14	− 17
1058	ξ^1 Ceti	2 9 48.946	52.126	55.305	58.485	− 16	+ 8 33 58.41	34 15.32	34 32.23	34 49.13	− 2
1059	21 Aris	2 12 18.131	21.534	24.937	28.341	− 66	+24 45 57.67	46 14.39	46 31.10	46 47.81	− 78
1060	135 G. Phoe	2 12 6.220	8.648	11.075	13.502	− 27	−41 26 43.95	26 27.18	26 10.40	25 53.63	− 26
1061	232 G. Ceti	2 14*54.212	57.328	60.445	63.562	+ 242[1])	+ 1 28 30.32	28 47.37	29 4.42	29 21.47	+ 381
1062	21 G. Forn	2 14 47.303	49.846	52.389	54.933	+ 139	−36 15 38.06	15 21.32	15 4.59	14 47.86	+ 60
1063	62 Andr	2 15 23.753	27.622	31.491	35.360	− 57	+47 6 15.55	6 32.19	6 48.83	7 5.46	− 2
1064	239 G. Ceti	2 19 15.297	18.125	20.952	23.779	+ 12	−17 56 3.59	55 47.18	55 30.78	55 14.38	− 51
1065	δ Hydi	2 20 40.522	41.589	42.657	43.724	− 80	−68 55 55.51	55 39.11	55 22.71	55 6.32	+ 13
1066	ρ Ceti	2 23 2.971	5.869	8.767	11.665	− 12	−12 33 36.62	33 20.36	33 4.11	32 47.85	− 3
1067	κ Hydi	2 22 29.786	30.141	30.497	30.854	− 188[2])	−73 55 2.91	54 46.60	54 30.30	54 14.00	+ 11
1068	12 Tria	2 24 38.466	41.982	45.499	49.015	− 15	+29 24 9.38	24 25.48	24 41.57	24 57.66	− 83
1069	27 Aris	2 27 34.388	37.716	41.043	44.371	+ 22	+17 26 22.28	26 38.22	26 54.17	27 10.11	− 81
1070	14 Tria	2 28 25.918	29.579	33.239	36.900	+ 37	+35 52 56.41	53 12.42	53 28.41	53 44.41	+ 19
1071	σ Ceti	2 29 14.514	17.357	20.200	23.043	− 52	−15 30 25.61	30 9.78	29 53.96	29 38.14	− 118
1072	ν Ceti	2 32 43.303	46.452	49.600	52.748	− 21	+ 5 19 56.73	20 12.47	20 28.20	20 43.92	− 21
1073	268 G. Ceti	2 32 47.203	50.492	53.782	57.072	+1209	+ 6 36 5.86	36 23.08	36 40.29	36 57.50	+1464[3])
1074	80 Ceti	2 33 2.698	5.651	8.604	11.557	− 25	− 8 5 29.80	5 14.12	4 58.44	4 42.76	− 55
1075	ι Erid	2 38 17.936	20.304	22.671	25.039	+ 115	−40 6 40.87	6 25.45	6 10.03	5 54.61	− 25
1076	ζ Horo	2 38 47.569	49.437	51.305	53.173	+ 48	−54 48 22.14	48 6.71	47 51.28	47 35.86	+ 10
1077	14 Pers	2 40 10.041	13.945	17.851	21.757	+ 3	+44 2 35.75	2 51.09	3 6.42	3 21.75	− 6
1078	43 G. Forn	2 41 34.532	37.199	39.867	42.535	+ 123	−25 44 57.50	44 42.17	44 26.85	44 11.53	+ 61
1079	σ Aris	2 48 10.523	13.836	17.148	20.461	+ 22	+14 50 9.54	50 24.40	50 39.26	50 54.11	− 23
1080	40 G. Erid	2 53 36.805	39.812	42.819	45.827	− 23	− 3 57 10.17	56 55.65	56 41.13	56 26.62	− 41
1081	47 Aris	2 54 38.824	42.257	45.690	49.124	+ 165	+20 25 45.44	25 59.91	26 14.37	26 28.84	− 28
1082	24 Pers	2 55 20.107	23.823	27.539	31.255	− 42	+34 56 38.34	56 52.80	57 7.26	57 21.72	+ 10
1083	λ Ceti	2 56 29.706	32.921	36.136	39.351	+ 1	+ 8 40 9.85	40 24.23	40 38.60	40 52.97	− 10
1084	−18° 516	2 59 17.052	19.810	22.567	25.324	− 17	−18 26 33.56	26 19.37	26 5.17	25 50.99	− 22
1085	τ^3 Erid	2 59 44.726	47.372	50.017	52.662	− 105	−23 51 31.22	51 17.08	51 2.94	50 48.81	− 47
1086	58 G. Erid	3 0 52.717	54.768	56.818	58.868	+ 18	−47 12 33.62	12 19.48	12 5.36	11 51.23	+ 14
1087	63 G. Erid	3 4 28.517	31.351	34.185	37.019	+ 6	−13 59 14.99	59 1.35	58 47.72	58 34.08	− 253
1088	55 Aris	3 5*59.741	63.349	66.958	70.567	+ 15	+28 50 57.42	51 11.20	51 24.98	51 38.76	− 10
1089	ζ Aris	3 11 26.834	30.282	33.730	37.178	− 19	+20 49 24.27	49 37.64	49 51.01	50 4.38	− 72
1090	79 G. Forn	3 12 18.445	20.804	23.163	25.522	+ 24	−35 46 47.84	46 34.44	46 21.04	46 7.64	+ 12
1091	ζ Erid	3 12*55.001	57.915	60.829	63.744	− 4	− 9 2 29.27	2 15.87	2 2.47	1 49.07	+ 51
1092	Lac 1044	3 14 27.504	29.962	32.421	34.879	+ 14	−31 34 16.15	34 2.92	33 49.70	33 36.47	− 19
1093	κ Ceti	3 16 12.656	15.803	18.950	22.096	+ 178	+ 3 9 5.10	9 18.34	9 31.56	9 44.79	+ 99
1094	τ Aris	3 17 45.461	48.924	52.388	55.852	+ 19	+20 55 55.54	56 8.54	56 21.55	56 34.54	− 25
1095	ι Hydi	3 17 24.791	23.284	21.779	20.277	+ 337	−77 36 28.75	36 15.63	36 2.50	35 49.38	+ 67
1096	Pi 3^h 27	3 19 26.476	31.678	36.881	42.085	− 13	+64 22 25.06	22 37.99	22 50.90	23 3.81	+ 4
1097	17 Erid	3 27 38.265	41.242	44.218	47.195	+ 8	− 5 16 46.63	16 34.25	16 21.88	16 9.51	+ 13
1098	+34° 674	3 28*50.332	54.151	57.971	61.790	− 7	+35 15 33.28	15 45.57	15 57.85	16 10.12	+ 4
1099	τ^5 Erid	3 31 8.154	10.804	13.453	16.103	+ 30	−21 49 58.88	49 46.79	49 34.70	49 22.61	− 25
1100	20 Erid	3 33 33.263	35.996	38.729	41.462	+ 17	−17 39 52.42	39 40.47	39 28.53	39 16.59	− 5

[1]) μ für 1943.0: +0s.0243 [2]) μ ab 1941.0: −0s.0187 [3]) μ ab 1942.0: +1".463

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.s001	Deklination 1940	1941	1942	1943	μ' in 0."001
		h m s	s	s	s		° ' "	' "	' "	' "	
1101	10 Taur	3 33 48.480	51.542	54.603	57.665	— 155	+ 0 12 45.16	12 56.61	13 8.06	13 19.51	— 481
1102	τ Forn	3 36 17.807	20.303	22.799	25.294	+ 13	—28 8 17.02	8 5.23	7 53.45	7 41.67	+ 27
1103	11 Taur	3 37 10.947	14.530	18.113	21.697	+ 8	+25 8 13.07	8 24.75	8 36.44	8 48.11	— 10
1104	29 Taur	3 42 28.950	32.138	35.326	38.514	+ 12	+ 5 51 48.68	51 59.99	52 11.30	52 22.60	— 5
1105	+57° 752	3 48*50.072	54.940	59.808	64.677	+ 107[1])	+57 47 55.63	48 6.39	48 17.13	48 27.88	— 98
1106	Pi 3^h 187	3 49 43.905	47.336	50.766	54.197	+ 100	+17 8 59.45	9 10.21	9 20.97	9 31.72	— 27
1107	145 G. Erid	3 50 11.875	14.813	17.751	20.689	— 5	— 6 48 40.09	48 29.34	48 18.59	48 7.84	+ 1
1108	55 G. Horo	3 51 41.681	43.540	45.399	47.258	+ 29	—47 4 9.35	3 58.74	3 48.13	3 37.52	— 30
1109	17 G. Reti	3 57 25.413	26.701	27.989	29.277	+ 33	—57 16 19.14	16 8.91	15 58.68	15 48.45	+ 16
1110	δ Reti	3 57 47.444	48.393	49.341	50.290	+ 8	—61 34 9.16	33 58.99	33 48.81	33 38.64	— 13
1111	35 Erid	3 58 29.439	32.479	35.520	38.560	+ 14	— 1 42 59.13	42 49.01	42 38.89	42 28.78	— 12
1112	37 Taur	4 1 8.595	12.142	15.689	19.236	+ 66	+21 55 10.49	55 20.37	55 30.24	55 40.11	— 54
1113	λ Pers	4 2 6.220	10.688	15.156	19.625	— 10	+50 11 25.28	11 35.10	11 44.92	11 54.73	— 36
1114	63 G. Hydi	4 1 4.014	3.658	3.303	2.949	+ 56[2])	—71 19 59.98	19 50.00	19 40.01	19 30.03	+ 41
1115	43 Taur	4 5 39.975	43.470	46.965	50.461	+ 76	+19 27 7.78	27 17.34	27 26.89	27 36.44	— 29
1116	44 Taur	4 7 10.312	13.965	17.619	21.273	— 22	+26 19 33.59	19 43.02	19 52.45	20 1.88	— 36
1117	μ Pers	4 10 28.955	33.359	37.763	42.167	+ 8	+48 15 31.86	15 41.06	15 50.25	15 59.43	— 18
1118	μ Taur	4 12 16.377	19.635	22.893	26.151	+ 15	+ 8 44 36.81	44 45.86	44 54.92	45 3.96	— 19
1119	208 G. Erid	4 17 25.999	28.715	31.431	34.147	+ 16	—16 34 47.47	34 38.80	34 30.14	34 21.48	— 4
1120	ξ Erid	4 20 41.432	44.419	47.406	50.394	— 36	— 3 52 58.27	52 49.91	52 41.55	52 33.20	— 55
1121	43 Erid	4 21 46.856	49.110	51.363	53.616	+ 46	—34 9 18.26	9 9.88	9 1.50	8 53.12	+ 54
1122	+69° 258	4 23 32.318	38.612	44.907	51.203	+ 17[3])	+69 14 48.08	14 56.23	15 4.38	15 12.52	— 30
1123	Br 615	4 25 25.864	28.964	32.065	35.166	+ 9	+ 1 14 57.12	15 5.13	15 13.14	15 21.15	— 20
1124	57 Pers	4 29 11.177	15.398	19.619	23.840	+ 6	+42 56 15.81	56 23.54	56 31.27	56 39.00	+ 4
1125	ρ Taur	4 30 26.387	29.791	33.196	36.601	+ 68	+14 43 11.58	43 19.19	43 26.79	43 34.39	— 23
1126	Pi 4^h 148	4 37 34.159	37.914	41.669	45.425	+ 28	+28 30 1.65	30 8.67	30 15.69	30 22.70	— 32
1127	258 G. Erid	4 37 37.001	39.496	41.992	44.488	— 45	—24 35 54.75	35 47.69	35 40.62	35 33.57	+ 18
1128	Grb 866	4 38*47.472	52.031	56.591	61.151	— 2	+49 51 40.54	51 47.47	51 54.40	52 1.32	— 19
1129	α Cael	4 38 37.580	39.513	41.445	43.377	— 138	—41 58 38.62	58 31.73	58 24.84	58 17.96	— 78[4])
1130	β Cael	4 39*56.042	58.163	60.284	62.405	+ 30	—37 15 37.67	15 30.62	15 23.56	15 16.51	+ 199
1131	56 Erid	4 41 12.201	15.083	17.965	20.848	— 3	— 8 36 51.24	36 44.48	36 37.73	36 30.99	0
1132	268 G. Erid	4 44 1.931	4.327	6.723	9.119	+ 1	—28 11 41.45	11 34.91	11 28.38	11 21.85	+ 16
1133	Br 658	4 45*51.997	56.035	60.074	64.112	— 30	+37 23 3.34	23 9.75	23 16.15	23 22.55	+ 39
1134	π^3 Orio	4 46 34.826	38.083	41.340	44.597	+ 312	+ 6 51 29.26	51 35.59	51 41.91	51 48.23	+ 19
1135	97 Taur	4 47*51.650	55.159	58.669	62.179	+ 57	+18 44 21.91	44 28.07	44 34.24	44 40.40	— 34
1136	o^1 Orio	4 49 8.107	11.501	14.895	18.289	— 3	+14 9 8.08	9 14.12	9 20.15	9 26.18	— 56
1137	ζ Auri	4 58 16.744	20.937	25.131	29.324	+ 10	+40 59 25.00	59 30.31	59 35.61	59 40.90	— 22
1138	η Mens	4 56 53.774	52.046	50.318	48.591	+ 71	—75 1 47.89	1 42.38	1 36.87	1 31.35	+ 59
1139	26 G. Cael	5 0 6.469	8.740	11.010	13.280	— 8	—31 51 26.98	51 21.72	51 16.47	51 11.21	+ 83
1140	11 Orio	5 1 8.262	11.690	15.119	18.547	+ 11	+15 19 19.81	19 24.86	19 29.91	19 34.96	— 34
1141	+27° 732 *pr*	5 5*58.851	62.618	66.386	70.153	+ 44	+27 57 21.74	57 26.36	57 30.96	57 35.56	— 66
1142	16 Orio	5 6 1.436	4.736	8.037	11.338	+ 41	+ 9 45 14.75	45 19.42	45 24.09	45 28.75	— 3
1143	13 G. Pict	5 5 39.140	40.921	42.703	44.484	+ 25	—44 53 56.67	53 51.94	53 47.21	53 42.48	+ 25
1144	μ Leps	5 10 14.077	16.772	19.467	22.162	+ 28	—16 16 30.78	16 26.49	16 22.21	16 17.93	— 28
1145	λ Auri	5 14*55.007	59.228	63.448	67.669	+ 458	+40 2 52.17	2 55.43	2 58.67	3 1.91	— 662
1146	λ Leps	5 16 48.562	51.326	54.090	56.855	— 2	—13 14 14.49	14 10.74	14 7.00	14 3.25	— 2
1147	22 Orio	5 18 41.844	44.907	47.970	51.033	— 2	— 0 26 24.74	26 21.15	26 17.56	26 13.98	— 1
1148	115 Taur	5 23 39.934	43.434	46.934	50.434	+ 4	+17 54 44.31	54 47.45	54 50.58	54 53.71	— 24
1149	18 G. Colm	5 25 9.632	11.556	13.481	15.405	— 8	—40 59 39.96	59 36.83	59 33.71	59 30.59	+ 95
1150	18 Caml	5 27 25.160	30.299	35.438	40.577	+ 146	+57 10 52.62	10 55.24	10 57.85	11 0.46	— 218

[1]) μ für 1943.0: +0.s0106 [2]) μ ab 1942.0: +0.s0057 [3]) μ ab 1941.0: +0.s0016 [4]) μ' für 1943.0: —0."077

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.ˢ0001	Deklination 1940	1941	1942	1943	μ' in 0.″001
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1151	χ Auri	5 28 49.191	53.096	57.002	60.907	0	+32 8 58.60	9 1.31	9 4.02	9 6.72	− 3
1152	20 G. Pict	5 28 30.377	32.026	33.676	35.325	+ 14	−47 7 11.76	7 9.15	7 6.53	7 3.92	−127
1153	35 G. Colm	5 35 43.530	45.919	48.309	50.699	+ 8	−27 14 39.89	14 37.78	14 35.67	14 33.57	− 9
1154	δ Dora	5 44 39.830	39.937	40.045	40.152	− 51	−65 45 28.66	45 27.31	45 25.96	45 24.62	+ 7
1155	142 G. Orio	5 45 35.952	38.933	41.914	44.894	+ 37	− 4 6 34.15	6 33.09	6 32.04	6 31.00	−202
1156	γ Pict	5 48 44.095	45.184	46.273	47.363	+ 84	−56 10 51.42	10 50.50	10 49.58	10 48.66	− 62[1]
1157	ξ Auri	5 49*48.914	53.942	58.970	63.998	− 17	+55 41 43.77	41 44.68	41 45.58	41 46.47	+ 20
1158	136 Taur	5 49 33.274	37.045	40.817	44.588	+ 4	+27 35 59.73	36 0.63	36 1.52	36 2.41	− 14
1159	37 G. Pict	5 49 31.701	33.059	34.417	35.774	+ 5	−52 7 19.03	7 18.20	7 17.37	7 16.53	− 79
1160	γ Colm	5 55 24.498	26.625	28.753	30.880	− 2	−35 17 19.03	17 18.62	17 18.21	17 17.81	+ 9
1161	60 Orio	5 55 44.383	47.468	50.553	53.637	− 10	+ 0 32 56.18	32 56.55	32 56.92	32 57.28	+ 1
1162	+33° 1209	5 56 17.630	21.575	25.519	29.463	− 9	+33 8 4.06	8 4.39	8 4.71	8 5.03	+ 6
1163	1 Gemi	6 0 28.306	31.954	35.601	39.248	− 4	+23 16 6.08	16 5.93	16 5.78	16 5.62	−104
1164	74 G. Colm	6 3 46.843	49.153	51.463	53.773	+ 6	−29 45 2.71	45 3.08	45 3.46	45 3.84	− 40
1165	94 G. Leps	6 6 26.477	29.000	31.523	34.046	+ 9	−22 24 55.60	24 56.20	24 56.81	24 57.42	− 36
1166	ν Dora	6 9 7.402	7.018	6.634	6.250	− 96[2]	−68 49 50.39	49 51.16	49 51.94	49 52.71	+ 22
1167	Br 904 *sq*	6 11 36.379	40.422	44.465	48.509	− 53	+36 10 6.65	10 5.64	10 4.63	10 3.61	+ 8
1168	κ Auri	6 11 33.248	37.072	40.895	44.718	− 55	+29 31 19.31	31 18.03	31 16.74	31 15.45	−265
1169	74 Orio	6 13 4.402	7.772	11.141	14.510	+ 54	+12 17 25.91	17 24.95	17 23.98	17 23.02	+186
1170	7 Mono	6 16 49.311	52.201	55.092	57.982	− 4	− 7 47 46.78	47 48.25	47 49.72	47 51.20	+ 1
1171	23 G. CMaj	6 21 22.336	25.135	27.934	30.733	− 35	−11 29 47.28	29 49.18	29 51.10	29 53.01	− 40
1172	Grb 1156	6 22 5.431	9.702	13.972	18.243	0	+41 59 41.22	59 39.28	59 37.33	59 35.37	− 11
1173	ν Gemi	6 25 24.003	27.566	31.128	34.691	− 4	+20 15 6.58	15 4.34	15 2.10	14 59.85	− 18
1174	13 Mono	6 29 39.520	42.764	46.009	49.253	− 2	+ 7 22 42.54	22 39.95	22 37.35	22 34.74	− 7
1175	56 G. Mono	6 30 35.093	38.138	41.183	44.228	− 9	− 1 10 23.65	10 26.34	10 29.04	10 31.74	− 24
1176	ψ⁶ Auri	6 43 5.236	9.811	14.386	18.960	− 4	+48 51 18.41	51 14.66	51 10.91	51 7.15	+ 5
1177	16 Mono	6 43 16.044	19.316	22.588	25.860	− 7	+ 8 39 8.13	39 4.35	39 0.58	38 56.80	− 8
1178	31 G. Pupp	6 45 18.078	20.130	22.183	24.236	− 19	−37 51 44.79	51 48.74	51 52.70	51 56.65	− 16
1179	80 G. Mono	6 46 15.031	18.052	21.074	24.096	− 11	− 2 12 10.00	12 14.02	12 18.04	12 22.06	+ 4
1180	κ CMaj	6 47 35.901	38.142	40.383	42.625	− 10	−32 26 16.99	26 21.12	26 25.25	26 29.39	+ 4
1181	101 G. Mono	6 57 30.698	33.580	36.463	39.345	− 15	− 8 19 19.03	19 24.02	19 29.01	19 34.00	− 10
1182	ω Gemi	6 58 45.466	49.122	52.778	56.434	− 7	+24 18 9.73	18 4.64	17 59.55	17 54.45	− 3
1183	σ CMaj	6 59 19.680	22.071	24.461	26.851	− 4	−27 50 51.95	50 57.08	51 2.21	51 7.35	+ 1
1184	C Pupp	7 2 8.562	10.464	12.365	14.267	− 21[3]	−42 14 51.74	14 57.04	15 2.34	15 7.65	+ 67
1185	2 G. CMin	7 4 34.832	38.075	41.318	44.562	− 3	+ 7 34 0.96	33 55.35	33 49.73	33 44.11	− 36
1186	20 Mono	7 7 14.832	17.813	20.793	23.773	− 1	− 4 8 31.28	8 36.87	8 42.45	8 48.05	+215
1187	22 δ Mono	7 8 47.980	51.044	54.108	57.172	− 3	− 0 23 30.94	23 36.87	23 42.79	23 48.72	+ 6
1188	51 Gemi	7 9*55.563	59.008	62.453	65.899	+ 6	+16 15 44.61	15 38.55	15 32.47	15 26.40	− 43
1189	γ² Voln	7 9 15.846	15.340	14.835	14.328	+ 44	−70 24 6.25	24 12.12	24 17.98	24 23.85	+ 98
1190	Grb 1281	7 11 23.068	27.525	31.982	36.439	+ 36	+47 20 54.75	20 48.42	20 42.09	20 35.75	−184
1191	66 Auri	7 19*59.364	63.520	67.676	71.831	− 5	+40 47 23.21	47 16.32	47 9.43	47 2.54	− 29
1192	169 G. CMaj	7 22 22.926	25.681	28.437	31.193	−142	−13 37 57.37	38 4.43	38 11.50	38 18.57	− 11
1193	6 CMin	7 26 27.422	30.762	34.101	37.441	− 1	+12 7 56.05	7 48.65	7 41.24	7 33.83	− 17
1194	σ Pupp	7 27 19.556	21.460	23.363	25.267	− 58	−43 10 44.40	10 51.66	10 58.93	11 6.20	+190
1195	+46° 1286	7 32 10.572	14.929	19.286	23.643	− 29	+46 18 52.08	18 44.20	18 36.30	18 28.40	− 39
1196	υ Gemi	7 32 13.629	17.326	21.024	24.721	− 26	+27 1 50.79	1 42.83	1 34.86	1 26.89	−110
1197	125 G. Pupp	7 34 2.758	5.395	8.032	10.670	− 4	−19 34 2.64	34 10.63	34 18.63	34 26.63	+ 3
1198	Q Cari	7 34 10.634	12.118	13.602	15.086	+ 15	−52 23 57.27	24 5.30	24 13.33	24 21.36	− 21
1199	+37° 1769	7 42 39.242	43.246	47.250	51.254	+ 15	+37 39 51.83	39 43.16	39 34.48	39 25.79	+ 7
1200	81 Gemi	7 42 39.088	42.562	46.037	49.511	− 54	+18 39 28.59	39 19.85	39 11.10	39 2.35	− 62[4]

[1]) μ' ab 1941.0: —0.″063 [2] μ ab 1941.0: —0.ˢ0095 [3]) μ ab 1942.0: —0.ˢ0020 [4]) μ' für 1943.0: —0.″061

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension				μ in 0.s0001	Deklination				μ' in 0."001
		1940	1941	1942	1943		1940	1941	1942	1943	
		h m s	s	s	s		° ' "	' "	' "	' "	
1201	11 CMin	7 42*58.068	61.371	64.673	67.976	— 22	+10 54 57.35	54 48.62	54 39.89	54 31.15	— 24
1202	4 Pupp	7 43 11.044	13.806	16.569	19.332	— 10	—14 25 0.24	25 8.96	25 17.68	25 26.41	+ 4
1203	187 G. Pupp	7 45 42.656	44.469	46.281	48.094	— 13	—46 27 31.39	27 40.31	27 49.23	27 58.15	+ 4
1204	ξ Pupp	7 46 46.188	48.711	51.235	53.758	— 3	—24 42 29.03	42 38.04	42 47.05	42 56.06	— 3
1205	ζ CMin	7 48 35.278	38.389	41.501	44.612	— 15	+ 1 55 16.92	55 7.77	54 58.61	54 49.45	— 5
1206	61 G. Cari	7 48 13.437	14.428	15.419	16.410	— 95	—60 8 0.78	8 9.75	8 18.72	8 27.69	+151
1207	φ Gemi	7 49*49.634	53.307	56.979	60.651	— 28	+26 55 21.64	55 12.36	55 3.07	54 53.79	— 35
1208	1 Cncr	7 53 35.109	38.516	41.922	45.329	— 23	+15 57 7.18	56 57.60	56 48.01	56 38.43	— 45
1209	Grb 1384	7 54 4.048	8.264	12.480	16.695	+ 38	+44 8 22.18	8 12.62	8 3.05	7 53.48	+ 8
1210	225 G. Pupp	7 55 16.535	18.927	21.318	23.710	— 6	—30 10 19.60	10 29.26	10 38.92	10 48.59	+ 6
1211	ω Cncr	7 57 18.169	21.799	25.430	29.061	+ 8	+25 33 30.90	33 21.08	33 11.26	33 1.43	0
1212	232 G. Pupp	7 57 10.639	13.328	16.016	18.705	— 6	—18 14 0.72	14 10.58	14 20.44	14 30.30	— 50
1213	161 G. Mono	7 59 29.076	32.024	34.973	37.921	+ 7	— 6 10 7.71	10 17.72	10 27.74	10 37.76	— 28
1214	Pi 7h 308	8 6 17.403	21.309	25.214	29.119	+164	+35 38 11.15	38 0.42	37 49.68	37 38.94	—237
1215	3 H. UMaj	8 6*52.011	57.992	63.971	69.949	— 4	+68 39 11.68	39 1.14	38 50.60	38 40.05	+ 7
1216	+4° 1945	8 14 9.034	12.193	15.352	18.511	+ 1	+ 4 24 19.84	24 8.77	23 57.69	23 46.61	+ 1
1217	χ Cncr	8 16 25.355	29.001	32.646	36.291	— 14	+27 24 48.32	24 36.69	24 25.06	24 13.43	—386
1218	7 G. Hyda	8 16 22.479	25.353	28.227	31.101	— 43	— 9 58 38.86	58 50.07	59 1.28	59 12.49	+ 29
1219	294 G. Pupp	8 19 1.153	3.515	5.878	8.240	— 13	—32 51 44.93	51 56.35	52 7.77	52 19.19	+ 9
1220	20 Cncr	8 19*55.803	59.239	62.675	66.111	— 40	+18 31 34.55	31 23.02	31 11.50	30 59.96	— 30
1221	302 G. Pupp *pr*	8 22 28.225	30.815	33.406	35.997	— 22	—23 51 1.81	51 13.46	51 25.11	51 36.76	+ 27
1222	29 Cncr	8 25 16.526	19.874	23.222	26.570	— 13	+14 24 38.83	24 26.94	24 15.04	24 3.15	— 16
1223	δ Hyda	8 34 28.827	32.003	35.180	38.356	— 47	+ 5 54 51.00	54 38.47	54 25.95	54 13.42	— 12
1224	σ Hyda	8 35 37.310	40.446	43.582	46.718	— 13	+ 3 33 11.72	32 59.11	32 46.49	32 33.88	— 21
1225	34 Lync	8 36*52.735	56.884	61.032	65.180	+ 21	+46 2 45.55	2 32.96	2 20.37	2 7.77	+ 85
1226	53 G. Velr	8 38 38.042	40.033	42.024	44.015	— 6	—46 26 3.91	26 16.70	26 29.49	26 42.28	+ 4
1227	o Velr[1])	8 38 34.439	36.159	37.879	39.598	— 22	—52 42 29.19	42 41.95	42 54.72	43 7.49	+ 22
1228	γ Cncr	8 39 48.980	52.452	55.925	59.397	— 76	+21 41 8.11	40 55.19	40 42.27	40 29.34	— 44
1229	25 G. Pyxi	8 42 14.161	16.846	19.531	22.216	+ 4	—20 56 56.24	57 9.25	57 22.27	57 35.28	+ 25
1230	14 Hyda	8 46 20.793	23.808	26.823	29.838	— 18	— 3 13 9.26	13 22.59	13 35.92	13 49.26	— 23
1231	80 G. Hyda	8 52 26.963	29.721	32.479	35.237	+ 23	—18 0 42.12	0 55.84	1 9.56	1 23.28	— 19
1232	64 Cncr	8 55*51.856	55.541	59.227	62.912	— 37	+32 39 10.59	38 56.64	38 42.67	38 28.71	— 40
1233	109 G. Cari	8 55 30.329	31.797	33.266	34.734	— 20	—58*59 49.21	60 3.10	60 16.98	60 30.86	+ 12
1234	91 G. Velr	8 57 50.902	53.141	55.381	57.620	— 40	—41 1 9.50	1 23.50	1 37.51	1 51.51	+ 39
1235	92 G. Hyda	8 58*54.055	57.120	60.185	63.250	— 37	— 0 14 49.42	15 3.45	15 17.48	15 31.52	+ 76
1236	93 G. Hyda	9 0 44.004	46.995	49.985	52.976	— 11	— 4 55 58.36	56 12.58	56 26.80	56 41.02	+ 5
1237	Pi 8h 245	9 2 43.134	46.952	50.770	54.587	— 27	+38 41 35.97	41 21.61	41 7.24	40 52.87	— 22
1238	κ Cncr	9 4 29.911	33.161	36.410	39.660	— 17	+10 54 38.95	54 24.49	54 10.03	53 55.56	— 10
1239	ξ Cncr	9 5*54.735	58.185	61.635	65.085	0	+22 17 21.42	17 6.88	16 52.34	16 37.80	— 1
1240	101 G. Hyda	9 6 18.820	21.697	24.573	27.450	+ 8	—12 6 49.64	7 4.22	7 18.79	7 33.37	— 15
1241	ε Pyxi	9 7 23.744	26.287	28.830	31.373	0	—30 7 10.22	7 24.89	7 39.56	7 54.24	— 45
1242	107 G. Hyda	9 9 13.772	16.521	19.269	22.017	— 39	—19 30 5.73	30 20.43	30 35.13	30 49.84	+ 34
1243	ϑ Pyxi	9 18 50.114	52.771	55.427	58.084	— 7	—25 42 33.14	42 48.44	43 3.74	43 19.04	— 10
1244	κ Leon	9 21 9.833	13.328	16.823	20.318	— 25	+26 26 30.21	26 14.74	25 59.26	25 43.79	— 49
1245	28 Hyda	9 22 24.007	27.007	30.007	33.007	— 11	— 4 51 27.98	51 43.48	51 58.99	52 14.50	— 14
1246	ξ Leon	9 28 42.789	46.023	49.257	52.491	— 66	+11 33 59.34	33 43.42	33 27.49	33 11.57	— 87
1247	160 G. Hyda	9 30 26.592	29.354	32.117	34.879	— 18	—20 50 57.55	51 13.46	51 29.38	51 45.30	+ 11
1248	17 G. Antl	9 34 34.802	37.385	39.967	42.550	+ 27	—31 54 29.43	54 45.60	55 1.77	55 17.94	— 24
1249	Br 1352	9 35 19.560	22.690	25.820	28.950	—108	+ 4 55 16.16	54 59.93	54 43.69	54 27.44	— 55
1250	ι Hyda	9 36 47.511	50.575	53.639	56.703	+ 31	— 0 52 10.39	52 26.72	52 43.05	52 59.38	— 69

[1]) In B. J. 1936, S. A59, irrtümlich als 55 G. Velr bezeichnet

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0ˢ.0001	Deklination 1940	1941	1942	1943	μ' in 0".001
		h m s	s	s	s		° ' "	' "	' "	' "	
1251	15 Leon	9 40 2.474	5.992	9.510	13.028	— 18	+30 15 4.38	14 47.85	14 31.31	14 14.78	—109
1252	ψ Leon	9 40 27.953	31.220	34.488	37.755	— 1	+14 17 49.81	17 33.36	17 16.91	17 0.46	— 4
1253	+19° 2254	9 42 32.114	35.448	38.781	42.115	+ 16	+18 57 39.11	57 22.55	57 5.98	56 49.41	— 19
1254	l Cari	9 43 35.886	37.534	39.183	40.831	— 18	—62 13 49.92	14 6.51	14 23.09	14 39.68	+ 13
1255	Br 1369	9 44 43.727	47.600	51.472	55.344	+215	+46 18 5.74	17 48.99	17 32.24	17 15.48	— 96
1256	162 G. Velr	9 49 0.234	2.558	4.882	7.206	— 29	—45 54 44.91	55 1.73	55 18.56	55 35.38	+ 35
1257	18 G. Sext	9 53 9.074	12.054	15.035	18.015	— 20	— 7 21 36.44	21 53.50	22 10.56	22 27.62	— 6
1258	20 LMin	9 57 33.425	36.885	40.345	43.805	—414	+32 13 10.63	12 52.94	12 35.26	12 17.57	—434
1259	Pi 9ʰ 229	10 0 37.851	41.843	45.833	49.824	— 28	+54 10 58.47	10 41.07	10 23.67	10 6.26	— 10
1260	193 G. Hyda	10 1 34.592	37.364	40.137	42.909	— 71	—23 *59 40.02	59 57.43	60 14.84	60 32.25	+ 20
1261	υ² Hyda	10 2 12.089	15.010	17.932	20.853	— 26	—12 46 23.03	46 40.48	46 57.93	47 15.38	+ 8
1262	32 UMaj	10 13 42.030	46.394	50.757	55.119	—144	+65 24 31.05	24 13.11	23 55.17	23 37.22	— 13
1263	ε Sext	10 14 38.847	41.828	44.809	47.791	—109	— 7 46 6.95	46 24.91	46 42.88	47 0.84	+ 1
1264	187 G. Cari	10 15 4.557	6.560	8.563	10.567	— 32	—61 1 55.11	2 13.09	2 31.07	2 49.04	+ 5
1265	59 G. Antl	10 15 22.393	25.142	27.892	30.641	— 14	—28 41 29.03	41 47.01	42 5.00	42 22.98	+ 10
1266	23 Sext	10 17 *56.102	59.201	62.299	65.397	— 8	+ 2 35 31.93	35 13.83	34 55.74	34 37.64	— 4
1267	27 LMin	10 19 39.308	42.765	46.222	49.679	— 10	+34 12 42.28	12 24.11	12 5.94	11 47.77	— 14
1268	204 G. Velr	10 19 44.922	47.495	50.067	52.640	— 28	—41 20 51.01	21 9.12	21 27.22	21 45.33	+ 52
1269	64 G. Antl	10 20 51.427	54.053	56.680	59.306	—136	—37 42 16.98	42 35.23	42 53.48	43 11.74	— 54
1270	δ Sext	10 26 25.826	28.873	31.920	34.968	— 35	— 2 25 53.01	26 11.42	26 29.84	26 48.26	— 19
1271	+29° 2057	10 26 32.063	35.429	38.795	42.161	+ 7	+28 53 19.70	53 1.29	52 42.88	52 24.47	— 8
1272	46 Leon	10 28 *59.698	62.901	66.105	69.308	— 29	+14 26 44.65	26 26.18	26 7.71	25 49.23	+ 16
1273	219 G. Velr	10 30 24.764	27.297	29.831	32.365	+ 6	—46 41 37.76	41 56.29	42 14.83	42 33.36	— 1
1274	236 G. Hyda	10 33 32.994	35.981	38.968	41.955	+175	—11 54 27.18	54 46.50	55 5.81	55 25.13	—680
1275	37 LMin	10 35 20.909	24.287	27.665	31.042	+ 2	+32 17 18.44	16 59.75	16 41.06	16 22.36	+ 1
1276	Pi 10ʰ 135	10 40 1.842	5.370	8.899	12.426	—260	+46 31 11.02	30 52.11	30 33.20	30 14.29	— 74
1277	78 G. Antl	10 39 *56.094	58.875	61.655	64.436	— 23	—32 24 3.75	24 22.58	24 41.42	25 0.25	+ 1
1278	Br 1493	10 42 *58.259	61.383	64.507	67.631	— 8	+ 6 41 23.58	41 4.62	40 45.65	40 26.69	— 40
1279	51 Leon	10 43 10.713	13.945	17.178	20.410	+ 64	+19 12 30.06	12 11.09	11 52.11	11 33.14	— 45
1280	250 G. Hyda	10 43 *51.488	54.339	57.190	60.042	—121	—25 43 57.09	44 15.99	44 34.89	44 53.79	+ 49
1281	41 Sext	10 47 17.361	20.370	23.380	26.390	— 5	— 8 34 46.06	35 5.12	35 24.19	35 43.26	— 21
1282	47 UMaj	10 56 6.746	10.107	13.469	16.830	—281	+40 45 3.93	44 44.71	44 25.49	44 6.27	+ 49
1283	α Crat	10 56 50.914	53.837	56.760	59.683	—323	—17 58 44.01	59 3.17	59 22.34	59 41.51	+123
1284	58 Leon	10 57 27.713	30.812	33.910	37.009	+ 8	+ 3 56 24.25	56 4.93	55 45.61	55 26.28	— 18
1285	29 G. Leon	10 59 33.595	36.648	39.700	42.752	— 14	— 3 11 21.67	11 41.05	12 0.44	12 19.82	— 30
1286	11 G. Crat	11 2 33.197	36.208	39.219	42.230	+ 10	—10 45 49.07	46 8.60	46 28.12	46 47.64	—105
1287	65 Leon	11 3 50.566	53.626	56.687	59.747	—255	+ 2 16 53.64	16 34.11	16 14.57	15 55.03	— 90
1288	259 G. Cari	11 4 39.501	41.666	43.830	45.995	— 39	—70 33 10.99	33 30.45	33 49.92	34 9.38	— 2
1289	260 G. Cari	11 6 1.138	3.699	6.260	8.821	— 8	—58 38 58.74	39 18.23	39 37.72	39 57.21	— 1
1290	275 G. Hyda	11 9 21.024	23.915	26.805	29.696	+ 14	—32 6 27.30	6 46.85	7 6.40	7 25.96	+ 4
1291	9 G. Cent	11 9 48.647	51.379	54.111	56.844	— 98	—48 46 29.40	46 48.93	47 8.45	47 27.98	+ 41
1292	φ Leon	11 13 36.600	39.650	42.700	45.751	— 75	— 3 19 24.01	19 43.69	20 3.37	20 23.05	— 43
1293	55 UMaj	11 15 *52.020	55.292	58.563	61.834	— 49	+38 30 53.79	30 34.04	30 14.29	29 54.54	— 77
1294	28 G. Cent	11 21 29.422	32.290	35.158	38.027	— 15	—42 20 21.82	20 41.59	21 1.36	21 21.14	— 10
1295	Pi 11ʰ 63	11 22 35.092	38.274	41.456	44.637	— 23	+27 4 37.88	4 18.10	3 58.33	3 38.55	+ 3
1296	83 Leon	11 23 43.081	46.119	49.156	52.193	—482	+ 3 20 25.18	20 5.56	19 45.95	19 26.33	+177
1297	τ Leon	11 24 *51.075	54.161	57.246	60.332	+ 12	+ 3 11 12.79	10 52.96	10 33.14	10 13.31	— 17
1298	282 G. Hyda	11 26 38.991	41.962	44.932	47.903	— 12	—27 41 59.02	42 18.86	42 38.70	42 58.54	— 7
1299	ϑ Crat	11 33 38.148	41.191	44.234	47.277	— 43	— 9 28 12.88	28 32.79	28 52.70	29 12.60	+ 4
1300	61 UMaj	11 37 *53.677	56.837	59.997	63.157	— 12	+34 32 26.25	32 5.91	31 45.57	31 25.23	—390

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension				μ in 0.s0001	Deklination				μ' in 0.″001
		1940	1941	1942	1943		1940	1941	1942	1943	
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1301	ζ Crat	11 41 43.098	46.139	49.180	52.221	+ 24	−18 1 1.43	1 21.45	1 41.46	2 1.48	− 37
1302	ν Virg	11 42 46.509	49.593	52.677	55.761	− 12	+ 6 51 56.48	51 36.31	51 16.13	50 55.96	− 187
1303	Grb 1826	11 43*54.275	57.517	60.758	63.999	− 52	+61 44 9.10	43 49.06	43 29.02	43 8.98	− 44
1304	93 Leon	11 44*53.511	56.607	59.702	62.797	− 108	+20 33 8.67	32 48.66	32 28.65	32 8.64	− 11
1305	298 G. Hyda	11 45 43.002	46.032	49.061	52.092	− 20	−26 24 57.62	25 17.63	25 37.65	25 57.67	− 11
1306	12 G. Virg	11 47*58.081	61.148	64.216	67.283	+ 3	− 4*59 58.67	60 18.69	60 38.72	60 58.74	− 5
1307	Grb 1830	11 49 31.570	35.029	38.489	41.948	+3388[1])	+38 8 57.48	8 31.66	8 5.83	7 40.01	−5803[2])
1308	95 Leon	11 52 35.431	38.517	41.603	44.689	+ 7	+15 58 50.41	58 30.38	58 10.34	57 50.30	− 3
1309	η Crat	11 52*57.257	60.314	63.371	66.428	− 37	−16 49 0.20	49 20.25	49 40.29	50 0.34	− 11
1310	Pi 11h 202	11 55 2.450	5.533	8.616	11.699	− 84	+32 36 31.95	36 11.85	35 51.74	35 31.63	− 69
1311	π Virg	11 57 47.869	50.944	54.018	57.093	− 2	+ 6 56 55.94	56 35.86	56 15.79	55 55.71	− 33
1312	311 G. Hyda	12 2*51.182	54.263	57.344	60.425	− 42	−35 21 35.11	21 55.15	22 15.19	22 35.22	+ 5
1313	3 Coma	12 7 28.162	31.220	34.279	37.337	− 14	+17 8 34.84	8 14.80	7 54.76	7 34.72	− 6
1314	Br 1636	12 11 45.338	48.315	51.292	54.268	− 25	+53 46 6.17	45 46.13	45 26.10	45 6.06	− 19
1315	14 Virg	12 16 14.731	17.819	20.906	23.994	0	− 8 34 52.36	35 12.38	35 32.40	35 52.42	− 27
1316	3 CVen	12 16*51.733	54.691	57.648	60.605	− 10	+49 19 1.24	18 41.25	18 21.27	18 1.28	+ 3
1317	16 Virg	12 17 18.064	21.111	24.158	27.205	− 197	+ 3 38 47.56	38 27.51	38 7.45	37 47.40	− 70
1318	12 Coma	12 19 29.456	32.473	35.489	38.505	− 9	+26 10 44.17	10 24.19	10 4.21	9 44.22	− 13
1319	322 G. Hyda	12 22 9.579	12.719	15.860	19.001	+ 3	−27 25 0.59	25 20.56	25 40.53	26 0.50	− 20
1320	122 G. Cent	12 25 10.550	13.738	16.926	20.115	− 25	−38 42 32.81	42 52.75	43 12.69	43 32.63	− 20
1321	35 G. Corv	12 30 27.311	30.421	33.532	36.643	− 17	−12 30 0.82	30 20.63	30 40.45	31 0.26	+ 50
1322	Pi 12h 122	12 30 41.715	44.671	47.626	50.582	+ 12	+33 34 43.80	34 23.90	34 3.99	33 44.09	− 39
1323	23 Coma	12 31*51.733	54.722	57.712	60.701	− 51	+22 57 33.69	57 13.85	56 54.02	56 34.18	+ 15
1324	25 Virg	12 33 41.754	44.844	47.934	51.024	− 22	− 5 30 5.08	30 24.93	30 44.77	31 4.62	− 20
1325	133 G. Cent	12 38 4.554	7.847	11.141	14.434	− 77	−45 49 2.66	49 22.38	49 42.09	50 1.80	+ 54
1326	ρ Virg	12 38 50.815	53.851	56.888	59.925	+ 57	+10 33 57.59	33 37.74	33 17.89	32 58.04	− 94
1327	Y CVen	12 42 18.897	21.718	24.539	27.360	+ 1	+45 46 4.67	45 44.98	45 25.29	45 5.60	+ 10
1328	32 d² Virg	12 42 35.114	38.145	41.176	44.207	− 73	+ 7*60 4.12	59 44.43	59 24.73	59 5.04	+ 2
1329	332 G. Hyda	12 44 41.943	45.131	48.319	51.508	− 31	−24 31 30.10	31 49.73	32 9.36	32 28.99	+ 34
1330	35 Virg	12 44 48.004	51.059	54.113	57.168	− 5	+ 3 54 0.09	53 40.42	53 20.76	53 1.09	− 5
1331	143 G. Cent	12 47 25.390	28.644	31.898	35.152	− 25	−33 40 20.89	40 40.53	41 0.17	41 19.80	− 23
1332	31 Coma	12 48 46.635	49.557	52.480	55.402	− 12	+27 52 0.64	51 41.03	51 21.43	51 1.82	− 16
1333	32 Coma	12 49 13.196	16.179	19.162	22.145	− 6	+17 23 59.57	23 39.97	23 20.38	23 0.78	− 17
1334	52 G. Corv	12 50 50.057	53.221	56.386	59.550	− 26	−17 42 44.31	43 3.86	43 23.41	43 42.96	− 2
1335	ψ Virg	12 51 13.754	16.873	19.993	23.113	− 17	− 9 12 48.39	13 7.95	13 27.51	13 47.08	− 20
1336	44 Virg	12 56 33.896	36.987	40.077	43.168	− 26	− 3 29 19.10	29 38.53	29 57.96	30 17.39	+ 5
1337	14 CVen	13 2*56.225	59.031	61.837	64.643	− 26	+36 7 10.24	6 50.96	6 31.69	6 12.42	+ 16
1338	Grb 1956	13 3 10.455	13.155	15.855	18.555	− 18	+45 35 20.41	35 1.15	34 41.89	34 22.63	+ 25
1339	39 Coma	13 3 25.750	28.674	31.597	34.521	− 55	+21 28 29.89	28 10.57	27 51.24	27 31.92	− 46
1340	177 G. Cent	13 4 3.558	7.119	10.681	14.243	− 41	−53 8 20.41	8 39.71	8 59.01	9 18.30	− 32
1341	342 G. Hyda	13 8 23.081	26.344	29.607	32.870	− 41	−26 13 59.50	14 18.66	14 37.82	14 56.98	− 6
1342	195 G. Cent	13 13 32.753	36.084	39.416	42.748	+ 30	−31 11 20.74	11 39.81	11 58.88	12 17.95	− 52
1343	196 G. Cent	13 13 44.501	47.977	51.453	54.929	− 10	−43 39 47.28	40 6.30	40 25.33	40 44.35	− 13
1344	σ Virg	13 14 34.390	37.420	40.449	43.479	− 5	+ 5 47 7.78	46 48.80	46 29.82	46 10.85	+ 13
1345	61 Virg	13 15 15.663	18.801	21.939	25.076	− 755	−17 58 41.10	59 1.14	59 21.19	59 41.23	−1073
1346	23 CVen	13 17 37.743	40.432	43.121	45.809	− 53	+40 27 53.82	27 34.90	27 15.99	26 57.08	− 10
1347	J Cent	13 18 44.217	48.088	51.959	55.832	− 39	−60 40 27.50	40 46.38	41 5.26	41 24.14	− 10
1348	68 Virg	13 23 32.711	35.880	39.048	42.217	− 93	−12 23 45.74	24 4.49	24 23.24	24 41.99	− 24
1349	70 Virg	13 25 29.658	32.593	35.527	38.461	− 164	+14 5 55.19	5 35.94	5 16.70	4 57.46	− 580
1350	+31° 2493	13 25 32.305	35.080	37.855	40.630	+ 2	+31 27 34.30	27 15.64	26 56.97	26 38.31	− 2

[1]) μ ab 1941.0: +0.s3387   [2]) μ' ab 1941.0: —5.″804

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.ˢ0001	Deklination 1940	1941	1942	1943	μ′ in 0.″001
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1351	78 Virg	13 31 5.358	8.399	11.439	14.479	+ 28	+ 3 57 59.32	57 40.82	57 22.31	57 3.80	− 29
1352	80 Virg	13 32 23.799	26.920	30.041	33.162	+ 10	− 5 5 28.71	5 47.08	6 5.44	6 23.80	+ 73
1353	Grb 2017	13 32 40.920	43.474	46.028	48.582	− 21	+44 30 11.40	29 52.99	29 34.58	29 16.17	+ 12
1354	355 G. Hyda	13 38 11.824	15.134	18.444	21.754	− 7	−23 8 48.91	9 7.14	9 25.36	9 43.59	+ 2
1355	82 Virg	13 38 27.553	30.702	33.850	36.999	− 67	− 8 24 3.42	24 21.60	24 39.79	24 57.97	+ 35
1356	253 G. Cent	13 38 59.731	63.646	67.562	71.479	− 24	−56 27 56.45	28 14.67	28 32.87	28 51.08	− 10
1357	83 Virg	13 41 15.284	18.520	21.757	24.994	+ 9	−15 52 40.98	52 59.11	53 17.23	53 35.36	− 12
1358	3 Boot	13 43*56.141	58.927	61.713	64.499	− 16	+25 *60 9.28	59 51.19	59 33.12	59 15.04	− 64
1359	+9° 2814	13 46 45.269	48.249	51.229	54.210	− 10	+ 8 42 21.16	42 3.26	41 45.35	41 27.45	0
1360	+32° 2411	13 53 30.716	33.377	36.037	38.698	−106	+32 19 29.16	19 11.57	18 53.98	18 36.40	+ 45
1361	48 Hyda	13 56 38.135	41.494	44.852	48.211	−145	−24 43 6.13	43 23.73	43 41.33	43 58.92	− 99
1362	204 G. Virg	13 56 42.527	45.635	48.743	51.852	− 20	− 3 15 29.94	15 47.50	16 5.07	16 22.63	− 68
1363	ϑ Apds	13 59 24.938	30.761	36.587	42.416	−241	−76 30 30.72	30 48.13	31 5.54	31 22.95	− 34
1364	307 G. Cent	13 59 47.478	51.130	54.783	58.435	− 40	−41 8 5.89	8 23.28	8 40.68	8 58.07	− 32
1365	210 G. Virg	14 1 11.784	15.032	18.279	21.526	− 26	−14 41 3.00	41 20.33	41 37.66	41 54.98	− 24
1366	94 Virg	14 3* 6.894	10.071	13.248	16.425	+ 1	− 8 36 21.98	36 39.18	36 56.38	37 13.58	+ 18
1367	+39° 2720	14 3 *55.497	58.020	60.543	63.066	+ 9	+38 42 10.76	41 53.57	41 36.38	41 19.20	− 7
1368	9 H. Boot	14 5 31.852	34.250	36.649	39.047	+ 7	+44 8 21.15	8 4.01	7 46.88	7 29.74	− 29
1369	236 G. Virg	14 15 18.831	22.147	25.464	28.781	− 46	−18 26 20.75	26 37.44	26 54.13	27 10.82	− 42
1370	A Boot	14 15 27.589	30.125	32.661	35.197	− 3	+35 47 8.17	46 51.54	46 34.91	46 18.28	+ 12
1371	λ Virg	14 15*51.506	54.752	57.997	61.243	− 12	−13 5 45.10	6 1.70	6 18.29	6 34.88	+ 24
1372	18 Boot	14 16 21.941	24.844	27.747	30.651	+ 71	+13 16 48.86	16 32.23	16 15.60	15 58.97	− 34
1373	ψ Cent	14 16*53.901	57.547	61.194	64.841	− 58	−37 36 37.03	36 53.61	37 10.19	37 26.77	− 10
1374	2 Libr	14 20 11.629	14.856	18.084	21.312	− 8	−11 26 27.44	26 43.91	27 0.38	27 16.85	− 63
1375	244 G. Virg	14 21 12.032	15.017	18.003	20.988	− 54	+ 6 5 29.14	5 12.79	4 56.44	4 40.09	+ 5
1376	3 G. Libr	14 21 22.836	26.258	29.680	33.103	− 40	−24 32 6.16	32 22.54	32 38.91	32 55.28	− 27
1377	τ^1 Lupi	14 22 16.451	20.299	24.147	27.996	− 14	−44 57 3.74	57 20.06	57 36.37	57 52.68	− 15
1378	22 Boot	14 23 39.821	42.612	45.402	48.192	− 52	+19 29 44.73	29 28.52	29 12.32	28 56.11	+ 21
1379	5 UMin	14 27 37.475	37.340	37.207	37.075	+ 12	+75 57 45.86	57 29.86	57 13.85	56 57.84	+ 21
1380	σ Boot	14 32 4.029	6.641	9.254	11.866	+146	+29*60 17.67	60 2.01	59 46.35	59 30.69	+ 128
1381	10 G. Libr	14 33 48.003	51.194	54.386	57.578	−591	−12 3 4.78	3 20.12	3 35.45	3 50.78	+ 361
1382	32 Boot	14 38 50.445	53.327	56.209	59.091	−108	+11 55 5.24	54 49.70	54 34.17	54 18.64	− 118
1383	34 Boot	14 40 47.084	49.721	52.358	54.995	− 10	+26 46 55.25	46 39.92	46 24.60	46 9.28	− 19
1384	+33° 2489	14 42 43.034	45.543	48.053	50.562	+ 30	+33 2 29.58	2 14.29	1 59.02	1 43.74	− 82
1385	56 Hyda	14 44 14.261	17.763	21.264	24.766	+ 32	−25 50 13.28	50 28.40	50 43.50	50 58.61	− 1
1386	Grb 2152	14 46 45.316	47.671	50.026	52.382	−220	+38 3 27.46	3 12.60	2 57.74	2 42.89	+ 108
1387	α^1 Libr	14 47 21.776	25.094	28.411	31.729	− 69	−15 44 56.23	45 11.24	45 26.24	45 41.24	− 75
1388	+6° 2957	14 50 41.496	44.464	47.432	50.401	− 19	+ 6 29 9.39	28 54.66	28 39.94	28 25.22	+ 8
1389	381 G. Cent	14 52 3.285	6.967	10.648	14.330	+ 21	−33 36 48.03	37 2.69	37 17.34	37 31.99	− 5
1390	ξ^2 Libr	14 53 30.478	33.733	36.988	40.243	+ 4	−11 10 7.23	10 21.79	10 36.35	10 50.91	+ 4
1391	33 G. Libr	14 53*57.383	60.886	64.389	67.893	+742	−21 8 45.78	9 2.06	9 18.34	9 34.61	−1740
1392	Pi 14ʰ 227	14 54 21.322	24.025	26.729	29.433	− 10	+21 47 47.31	47 32.77	47 18.23	47 3.70	− 25
1393	Br 1908	14 54 28.463	31.539	34.615	37.691	+ 42	+ 0 4 23.28	4 8.75	3 54.22	3 39.69	− 27
1394	δ Libr	14 57 45.753	48.958	52.163	55.368	− 44	− 8 16 55.17	17 9.48	17 23.80	17 38.11	− 8
1395	47 Boot	15 3 26.508	28.495	30.482	32.469	− 68	+48 22 55.42	22 41.49	22 27.57	22 13.64	+ 29
1396	45 Boot	15 4 39.852	42.487	45.122	47.757	+135	+25 6 6.52	5 52.46	5 38.41	5 24.36	− 174
1397	+55° 1730	15 4 33.726	35.439	37.152	38.865	+ 51	+54 47 11.73	46 57.86	46 43.98	46 30.10	+ 9
1398	χ^1 Lupi	15 7 45.059	49.226	53.394	57.562	−100	−48 30 40.05	30 53.79	31 7.52	31 21.24	− 51
1399	1 Lupi	15 10*56.360	60.034	63.709	67.383	− 2	−31 17 47.23	18 0.71	18 14.18	18 27.66	− 2
1400	Pi 15ʰ 36	15 15 42.991	45.681	48.370	51.060	− 9	+20 47 27.82	47 14.63	47 1.45	46 48.26	− 23

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.s0001	Deklination 1940	1941	1942	1943	μ' in 0.''001
		h m s	s	s	s		° ' "	' "	' "	' "	
1401	+10° 2823	15 15 49.088	51.965	54.843	57.720	— 63	+10 38 43.65	38 30.49	38 17.34	38 4.18	+ 1
1402	δ Lupi	15 17 25.470	29.405	33.341	37.278	— 13	—40 25 54.01	26 7.09	26 20.16	26 33.24	— 27
1403	φ² Lupi	15 19 18.846	22.678	26.509	30.341	— 14	—36 38 40.97	38 53.92	39 6.87	39 19.81	— 25
1404	73 G. Libr	15 19 21.628	25.212	28.797	32.381	+ 24	—26 28 31.91	28 44.84	28 57.77	29 10.70	— 8
1405	30 Libr	15 19 40.695	44.040	47.386	50.731	— 2	—14 55 16.38	55 29.27	55 42.16	55 55.04	+ 11
1406	8 Serp	15 20 37.914	41.007	44.100	47.192	+ 49	— 0 48 34.50	48 47.37	49 0.24	49 13.10	— 31
1407	32 Libr	15 24*52.066	55.449	58.832	62.215	+ 10	—16 30 31.06	30 43.65	30 56.24	31 8.82	— 36
1408	+9° 3055	15 28 0.504	3.417	6.330	9.243	+ 24	+ 8 46 59.29	46 46.95	46 34.62	46 22.28	— 2
1409	37 Libr	15 30*53.667	56.946	60.224	63.503	+204	— 9 51 36.77	51 49.15	52 1.53	52 13.90	—241
1410	115 G. Lupi	15 32 4.898	9.004	13.111	17.218	— 48	—44 11 49.79	12 1.89	12 13.98	12 26.07	— 44
1411	2 G. Norm	15 34 21.177	25.631	30.086	34.542	— 39	—52 10 35.28	10 47.21	10 59.14	11 11.06	— 40
1412	Pi 15h 153	15 36 20.774	22.695	24.616	26.537	+ 81	+46 59 40.63	59 28.74	59 16.86	59 4.99	—126
1413	κ Libr	15 38 29.066	32.522	35.978	39.435	— 27	—19 29 8.93	29 20.64	29 32.35	29 44.06	—111
1414	κ CorB	15 48*58.163	60.423	62.684	64.944	— 10	+35 50 32.90	50 21.70	50 10.51	49 59.32	—353
1415	λ Libr	15 49 50.777	54.260	57.742	61.225	— 7	—19 59 20.96	59 31.76	59 42.56	59 53.36	— 28
1416	χ Herc	15 50 35.937	38.010	40.084	42.158	+393	+42 37 6.62	36 56.53	36 46.43	36 36.34	+627
1417	48 Libr	15 54 49.505	52.864	56.224	59.583	— 10	—14 6 27.84	6 38.27	6 48.70	6 59.12	— 22
1418	144 G. Lupi	15 55 24.623	28.708	32.794	36.880	— 22	—41 34 25.64	34 36.02	34 46.39	34 56.75	— 10
1419	49 Libr	15 56*57.287	60.653	64.020	67.386	—441	—16 21 29.11	21 39.76	21 50.40	22 1.04	—397
1420	50 Libr	15 57 33.042	36.280	39.519	42.758	— 12	— 8 14 35.10	14 45.33	14 55.54	15 5.76	— 18
1421	κ Herc *pr*	16 5 21.906	24.613	27.321	30.028	— 25	+17 12 19.76	12 10.14	12 0.52	11 50.91	— 11
1422	+6° 3169	16 6 13.756	16.710	19.664	22.618	+157	+ 6 32 54.58	32 44.32	32 34.05	32 23.79	—724
1423	τ CorB	16 6 46.532	48.726	50.919	53.112	— 48	+36 38 32.03	38 22.85	38 13.68	38 4.50	+325
1424	δ¹ Apds	16 11 18.447	27.388	36.332	45.279	— 24[1])	—78 32 54.34	33 3.53	33 12.70	33 21.86	— 37
1425	17 Herc	16 13 43.080	45.638	48.196	50.754	— 12	+23 16 14.36	16 5.38	15 56.41	15 47.44	— 14
1426	55 G. Scor *sq*	16 15 44.662	48.456	52.250	56.045	+ 66	—30 45 46.13	45 54.91	46 3.69	46 12.46	+ 21
1427	σ Serp	16 19 1.854	4.892	7.930	10.968	—106	+ 1 10 7.16	9 58.66	9 50.17	9 41.68	+ 50
1428	23 Herc	16 20 38.148	40.451	42.753	45.055	+ 9	+32 28 18.93	28 10.50	28 2.08	27 53.65	— 10
1429	21 Herc	16 21 15.302	18.224	21.146	24.068	— 1	+ 7 5 8.11	4 59.76	4 51.41	4 43.07	+ 18
1430	22 G. Ophi	16 26 23.181	26.572	29.962	33.353	+ 20	—14 25 14.19	25 22.14	25 30.07	25 38.01	+ 16
1431	N Scor	16 27 27.343	31.263	35.183	39.102	— 6	—34 34 31.27	34 39.15	34 47.04	34 54.91	— 15
1432	Pi 16h 140	16 31 34.431	35.277	36.124	36.970	+ 18	+60 56 54.90	56 47.34	56 39.79	56 32.24	— 13
1433	12 Ophi	16 33 12.161	15.312	18.463	21.614	+302	— 2 11 53.01	12 0.73	12 8.45	12 16.17	—315
1434	42 Herc	16 37 6.981	8.610	10.238	11.867	— 48	+49 2 41.86	2 34.81	2 27.75	2 20.70	+ 32
1435	η Arae	16 44 35.573	40.750	45.928	51.106	+ 43	—58 56 11.59	56 18.10	56 24.59	56 31.08	— 30
1436	19 Ophi	16 44 8.071	11.094	14.118	17.142	— 16	+ 2 10 16.64	10 10.11	10 3.59	9 57.08	— 12
1437	—21° 4422	16 46 0.059	3.637	7.215	10.793	— 8	—21 44 54.98	45 1.36	45 7.73	45 14.10	— 20
1438	20 Ophi	16 46 30.676	33.994	37.313	40.632	+ 63	—10 40 42.58	40 49.00	40 55.40	41 1.81	— 97
1439	μ¹ Scor	16 47*48.040	52.103	56.166	60.229	— 8	—37 56 46.73	56 52.97	56 59.20	57 5.42	— 28
1440	51 Herc	16 49 15.922	18.409	20.896	23.383	+ 9	+24 45 22.04	45 15.97	45 9.89	45 3.82	+ 9
1441	53 Herc	16 50 41.394	43.668	45.943	48.217	— 78	+31 47 59.39	47 53.41	47 47.42	47 41.44	— 19
1442	ι Ophi	16 51 10.012	12.850	15.689	18.527	— 35	+10 15 45.87	15 39.90	15 33.94	15 27.98	— 37
1443	51 G. Apds	16 52*37.276	45.518	53.761	62.006	— 99[2])	—76 7 29.84	7 35.79	7 41.73	7 47.66	—149
1444	24 G. Arae	16 53 39.651	44.279	48.907	53.536	— 14	—50 32 54.33	33 0.10	33 5.85	33 11.60	— 44
1445	30 Ophi	16 57*53.577	56.740	59.903	63.066	— 34	— 4 8 3.12	8 8.56	8 14.00	8 19.43	— 78
1446	59 Herc	16 59 23.330	25.544	27.758	29.973	— 4	+33 39 14.25	39 9.01	39 3.77	38 58.53	— 4
1447	80 G. Ophi	17 3 9.943	13.660	17.377	21.095	+ 2	—26 26 0.79	26 5.73	26 10.66	26 15.58	— 19
1448	Pi 16h 307	17 3 15.158	16.984	18.811	20.638	0	+43 53 34.11	53 29.20	53 24.29	53 19.38	— 1
1449	85 G. Ophi	17 4 45.614	49.098	52.581	56.064	+ 2	—17 31 52.44	31 57.26	32 2.07	32 6.88	— 35
1450	88 G. Ophi	17 6 28.759	32.076	35.392	38.709	+ 38	—10 26 47.32	26 52.06	26 56.79	27 1.52	—101

[1]) μ für 1943.0: —0.s0023 [2]) μ ab 1941.0: —0.s0098

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.s0001	Deklination 1940	1941	1942	1943	μ' in 0.''001
		h m s	s	s	s		° ' "	' "	' "	' "	
1451	97 G. Ophi	17 8 51.492	54.385	57.277	60.170	+18	+ 7 57 58.90	57 54.48	57 50.06	57 45.65	+ 11
1452	139 G. Scor	17 13 9.237	13.139	17.041	20.944	−76	−32 35 48.70	35 52.82	35 56.94	36 1.04	− 53
1453	U Ophi	17 13 28.911	31.954	34.998	38.041	− 5	+ 1 16 33.21	16 29.15	16 25.10	16 21.06	− 16
1454	Pi 17h 68	17 17 40.086	42.729	45.373	48.016	+ 2	+18 7 2.93	6 59.20	6 55.47	6 51.74	− 54
1455	59 G. Apds	17 20 11.685	22.895	34.108	45.322	+25	−80 48 31.49	48 34.99	48 38.47	48 41.93	− 41
1456	72 Herc	17 18 24.712	26.956	29.200	31.445	+96[1]	+32 32 37.50	32 32.85	32 28.19	32 23.54	−1043
1457	44 Ophi	17 22 42.186	45.849	49.513	53.177	0	−24 7 18.71	7 22.07	7 25.43	7 28.78	− 116
1458	138 G. Ophi	17 22*50.887	54.002	57.117	60.232	+48	− 1 36 3.49	36 6.68	36 9.86	36 13.04	+ 47
1459	σ Ophi	17 23 32.124	35.100	38.077	41.053	− 1	+ 4 11 27.61	11 24.44	11 21.27	11 18.12	+ 6
1460	λ Herc	17 28 18.700	21.124	23.549	25.973	+11	+26 9 16.71	9 13.97	9 11.23	9 8.49	+ 18
1461	−11° 4411	17 31 25.980	29.314	32.649	35.984	−10	−11 12 10.56	12 13.04	12 15.52	12 18.00	+ 6
1462	Grb 2444	17 31 12.913	14.815	16.717	18.619	−71	+41 17 5.55	17 2.97	17 0.40	16 57.84	− 64
1463	58 Ophi	17 39*49.947	53.542	57.137	60.732	−67	−21 39 20.93	39 22.74	39 24.54	39 26.34	− 48
1464	X Sgtr	17 43 46.884	50.660	54.436	58.212	− 2	−27 48 35.18	48 36.60	48 38.02	48 39.43	− 9
1465	+20° 3570	17 45 50.174	52.747	55.321	57.894	+ 9	+20 35 2.41	35 1.18	34 59.94	34 58.71	0
1466	+9° 3485	17 47 18.736	21.574	24.413	27.251	−27	+ 9 51 54.94	51 53.78	51 52.62	51 51.47	− 52
1467	−7° 4523	17 51 42.494	45.745	48.995	52.246	−35	− 7 43 24.13	43 24.91	43 25.68	43 26.45	− 57
1468	89 Herc	17 52*59.836	62.256	64.675	67.095	− 2	+26 3 29.98	3 29.37	3 28.77	3 28.17	+ 6
1469	93 Herc	17 57 23.075	25.746	28.416	31.086	− 5	+16 45 10.59	45 10.35	45 10.12	45 9.89	− 11
1470	6 Sgtr	17 57*53.835	57.320	60.806	64.291	− 2	−17 9 22.68	9 22.87	9 23.05	9 23.23	− 7
1471	ϑ Arae	18 1*57.521	62.191	66.860	71.530	−14	−50 5 51.50	5 51.34	5 51.18	5 51.01	− 18
1472	−13° 4863	18 6 18.885	22.290	25.695	29.100	+ 1	−13 56 45.75	56 45.19	56 44.63	56 44.06	+ 1
1473	ε Tele	18 6 46.479	50.932	55.385	59.838	−15	−45 58 0.74	58 0.18	57 59.61	57 59.03	− 31
1474	6 G. Tele	18 12 4.181	9.234	14.286	19.338	−22	−56 2 39.91	2 38.87	2 37.81	2 36.75	− 12
1475	Br 2292	18 14 5.829	9.132	12.435	15.738	− 1	− 9 46 50.55	46 49.38	46 48.21	46 47.03	− 64
1476	74 Ophi	18 17*52.239	55.233	58.228	61.223	− 4	+ 3 20 55.52	20 57.09	20 58.67	21 0.25	+ 10
1477	κ Lyra	18 17 45.430	47.532	49.634	51.736	−17	+36 2 11.29	2 12.89	2 14.49	2 16.09	+ 42
1478	+7° 3682	18 22 45.516	48.401	51.287	54.173	− 6	+ 7 59 48.73	59 50.71	59 52.70	59 54.69	− 6
1479	+29° 3259	18 23 39.786	42.098	44.411	46.723	+ 2	+29 47 35.55	47 37.59	47 39.64	47 41.70	− 22
1480	60 Serp	18 26 33.552	36.674	39.795	42.917	+18	− 2 1 32.38	1 30.09	1 27.80	1 25.51	− 33
1481	+16° 3529	18 28 24.209	26.876	29.544	32.211	−32	+16 53 8.14	53 10.59	53 13.05	53 15.51	− 27
1482	α Scut	18 31*56.460	59.724	62.989	66.253	−15	− 8 17 15.51	17 13.04	17 10.56	17 8.07	− 312
1483	Grb 2603	18 32 5.870	7.564	9.259	10.953	− 1	+46 10 15.83	10 18.65	10 21.46	10 24.28	+ 14
1484	+9° 3783	18 33 36.010	38.871	41.732	44.593	−10	+ 9 4 25.69	4 28.49	4 31.30	4 34.11	− 126
1485	83 G. Sgtr	18 34 18.840	22.432	26.024	29.616	− 2	−21 26 56.74	26 53.82	26 50.89	26 47.96	− 70
1486	δ Scut	18 38*59.258	62.543	65.827	69.112	+ 3	− 9 6 41.49	6 38.10	6 34.70	6 31.29	0
1487	φ Sgtr	18 41*54.473	58.221	61.969	65.717	+39	−27 3 15.24	3 11.59	3 7.94	3 4.28	+ 1
1488	+26° 3349	18 43 39.325	41.743	44.160	46.577	+12	+26 35 48.33	35 52.15	35 55.98	35 59.81	+ 25
1489	β Scut	18 43*59.401	62.584	65.767	68.949	− 8	− 4 48 49.09	48 45.28	48 41.46	48 37.65	− 17
1490	η¹ CorA	18 44 30.734	35.064	39.394	43.724	+21	−43 44 50.20	44 46.34	44 42.48	44 38.61	− 13
1491	111 Herc	18 44 22.203	24.852	27.501	30.150	+48	+18 6 48.09	6 52.06	6 56.04	7 0.02	+ 114
1492	Grb 2671	18 45 22.592	23.933	25.273	26.613	+ 9	+52 55 16.83	55 20.77	55 24.72	55 28.66	− 3
1493	30 Sgtr	18 47 14.048	17.653	21.259	24.864	−21	−22 13 57.26	13 53.19	13 49.11	13 45.02	− 31
1494	50 Drac	18 48 19.090	17.154	15.218	13.281	−53	+75 21 51.35	21 55.62	21 59.89	22 4.16	+ 78
1495	114 G. Sgtr	18 52 3.610	7.065	10.520	13.975	−24	−16 27 4.75	27 0.42	26 56.09	26 51.75	− 187
1496	τ Sgtr	19 3 11.696	15.442	19.187	22.933	−42	−27 45 35.56	45 30.35	45 25.13	45 19.91	− 250
1497	21 G. Aqil	19 3 28.745	31.851	34.958	38.064	+10	− 1 26 22.20	26 16.72	26 11.25	26 5.76	− 9
1498	Pi 18h 318	19 4 14.785	17.165	19.546	21.926	+55	+28 31 59.14	32 4.78	32 10.42	32 16.06	+ 87
1499	42 G. Octn	19 8 15.376	23.535	31.692	39.848	− 2	−75 54 12.45	54 6.57	54 0.69	53 54.79	− 12
1500	20 Aqil	19 9 25.407	28.661	31.915	35.169	+ 6	− 8 2 28.94	2 22.97	2 16.99	2 11.01	− 7

[1]) μ ab 1942.0: + 0.s0097

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0.ˢ0001	Deklination 1940	1941	1942	1943	μ′ in 0.″001
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1501	162 G. Sgtr	19 15 41.530	45.506	49.481	53.457	+ 3	−35 31 56.12	31 49.62	31 43.11	31 36.60	− 2
1502	β^1 Sgtr	19 18 19.650	23.963	28.276	32.589	+ 1	−44 34 25.01	34 18.30	34 11.60	34 4.88	− 19
1503	31 Aqil	19 22 6.487	9.348	12.208	15.068	+489	+11 48 52.56	49 0.23	49 7.90	49 15.58	+639
1504	59 G. Tele	19 22*59.365	64.187	69.007	73.828	− 2	−54 26 49.35	26 42.23	26 35.10	26 27.97	+ 15
1505	Br 2462	19 23 51.093	53.717	56.341	58.965	− 8	+19 46 15.37	46 22.49	46 29.62	46 36.76	− 46
1506	Grb 2844	19 24 6.693	8.522	10.352	12.181	− 46	+44 48 39.63	48 46.75	48 53.87	49 0.99	− 76
1507	Pi 19ʰ 156	19 24 41.599	42.684	43.768	44.852	− 20	+57 54 21.00	54 28.25	54 35.50	54 42.75	+ 9
1508	α Vulp	19 26 12.440	14.936	17.432	19.928	− 97	+24 32 32.13	32 39.39	32 46.65	32 53.92	−103
1509	36 Aqil	19 27 31.526	34.663	37.800	40.937	+ 9	− 2 54 55.19	54 47.73	54 40.26	54 32.78	− 6
1510	8 Cygn	19 29 32.428	34.657	36.885	39.114	− 6	+34 19 27.56	19 35.19	19 42.83	19 50.47	0
1511	μ Aqil	19 31 9.440	12.370	15.301	18.231	+141	+ 7 15 0.69	15 8.31	15 15.92	15 23.54	−155
1512	54 Sgtr	19 37 17.189	20.626	24.063	27.499	+ 46	−16 25 56.35	25 48.14	25 39.92	25 31.70	− 45
1513	β Sgte	19 38 21.180	23.874	26.568	29.262	+ 2	+17 20 8.61	20 16.92	20 25.23	20 33.54	− 34
1514	55 Sgtr	19 39 5.248	8.680	12.111	15.542	+ 42	−16 15 58.16	15 49.77	15 41.38	15 32.98	− 11
1515	10 Vulp	19 41 13.149	15.643	18.137	20.631	+ 4	+25 37 37.82	37 46.40	37 55.00	38 3.59	+ 20
1516	228 G. Sgtr	19 42 11.675	15.503	19.331	23.159	+ 2	−32 3 17.88	3 9.26	3 0.62	2 51.99	− 19
1517	56 Sgtr	19 42*51.799	55.298	58.798	62.297	− 95	−19 54 24.91	54 16.30	54 7.68	53 59.06	− 87
1518	75 G. Pavo	19 49 27.001	32.245	37.488	42.731	+ 13	−61 19 40.62	19 31.39	19 22.16	19 12.92	+ 9
1519	90 G. Aqil	19 50 10.184	13.327	16.469	19.611	+ 14	− 3 16 16.44	16 7.15	15 57.86	15 48.57	+ 16
1520	ι Sgtr	19 51 7.573	11.712	15.851	19.990	+ 7	−42 1 39.72	1 30.32	1 20.92	1 11.50	+ 56
1521	η Cygn	19 54 3.225	5.475	7.726	9.976	− 30	+34 55 22.69	55 32.24	55 41.78	55 51.33	− 27
1522	61 Sgtr	19 54 32.903	36.305	39.707	43.109	+ 7	−15 39 7.59	38 58.08	38 48.56	38 39.04	− 96
1523	15 Vulp	19 58 37.690	40.161	42.631	45.101	+ 40	+27 35 12.06	35 21.99	35 31.92	35 41.86	+ 10
1524	τ Aqil	20 1 12.435	15.365	18.295	21.224	+ 5	+ 7 6 26.50	6 36.63	6 46.76	6 56.90	+ 16
1525	28 Cygn	20 7 11.812	14.039	16.267	18.494	− 2	+36 39 43.17	39 53.75	40 4.33	40 14.91	+ 15
1526	ρ Aqil	20 11 29.979	32.755	35.530	38.306	+ 36	+15 0 48.67	0 59.61	1 10.55	1 21.49	+ 55
1527	α^1 Capr	20 14 19.390	22.715	26.040	29.365	+ 11	−12 41 42.09	41 31.00	41 19.90	41 8.80	+ 3
1528	83 G. Tele	20 14 38.192	42.496	46.800	51.104	+ 6	−47 53 54.40	53 43.28	53 32.16	53 21.03	+ 5
1529	4 Capr	20 14 30.015	33.540	37.065	40.589	+ 23	−21 59 48.57	59 37.50	59 26.42	59 15.34	− 29
1530	290 G. Sgtr	20 16*59.644	63.517	67.390	71.262	+ 14	−35 51 51.53	51 40.22	51 28.90	51 17.58	+ 28
1531	132 G. Aqil	20 20 12.276	15.248	18.220	21.192	− 25	+ 5 9 0.04	9 11.52	9 23.00	9 34.48	− 35
1532	296 G. Sgtr	20 21 46.593	50.266	53.940	57.613	+ 8	−28 51 33.18	51 21.54	51 9.89	50 58.23	+ 19
1533	69 Aqil	20 26 30.856	33.991	37.127	40.262	+ 44	− 3 5 10.63	4 58.69	4 46.74	4 34.79	− 15
1534	41 Cygn	20 26*56.543	58.994	61.445	63.896	+ 2	+30 10 2.15	10 14.14	10 26.13	10 38.12	− 3
1535	42 Cygn	20 27 2.979	5.267	7.555	9.844	+ 1	+36 15 12.65	15 24.65	15 36.65	15 48.66	+ 2
1536	29 G. Capr	20 29 6.778	10.060	13.342	16.624	+202	−10 3 33.92	3 21.67	3 9.42	2 57.17	+102
1537	9 G. Delf	20 31 0.695	3.682	6.669	9.655	+ 6	+ 4 41 33.18	41 45.45	41 57.72	42 9.99	− 6
1538	Grb 3241	20 30 16.986	16.733	16.479	16.225	− 14	+72 19 42.98	19 55.18	20 7.39	20 19.59	− 16
1539	29 Vulp	20 35 50.439	53.118	55.797	58.476	+ 44	+20*59 22.36	59 34.97	59 47.59	60 0.21	+ 7
1540	13 G. Micr	20 36 34.274	38.039	41.804	45.569	+ 26	−33 38 43.37	38 30.66	38 17.95	38 5.24	+ 50
1541	γ Delf *sq*	20 43*52.398	55.181	57.964	60.746	− 28	+15 54 25.21	54 38.16	54 51.11	55 4.07	−193
1542	ι Micr	20 44 25.490	29.559	33.628	37.696	+167	−44 12 31.06	12 17.98	12 4.90	11 51.81	−102
1543	3 Aqar	20 44 34.319	37.484	40.649	43.814	− 3	− 5 14 54.93	14 41.78	14 28.62	14 15.46	− 37
1544	Grb 3285	20 44 36.746	38.485	40.224	41.963	− 97	+52 46 34.27	46 47.35	47 0.44	47 13.53	−106
1545	−1° 4057	20 46 12.116	15.200	18.284	21.368	− 24	− 0 47 10.13	46 56.85	46 43.56	46 30.27	− 12
1546	ω Capr	20 48 14.645	18.226	21.807	25.387	− 7	−27 8 41.85	8 28.42	8 14.99	8 1.55	− 2
1547	μ Aqar	20 49 25.116	28.352	31.587	34.823	+ 26	− 9 12 34.70	12 21.22	12 7.74	11 54.25	− 28
1548	64 G. Capr	20 54 19.194	22.553	25.911	29.269	+ 31	−16 15 49.38	15 35.56	15 21.74	15 7.91	0
1549	33 Vulp	20 55 35.306	37.988	40.670	43.351	− 6	+22 5 34.81	5 48.71	6 2.62	6 16.53	+ 6
1550	γ Micr	20 57 36.928	40.609	44.290	47.970	0	−32 29 36.89	29 22.86	29 8.82	28 54.78	+ 6

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0ˢ0001	Deklination 1940	1941	1942	1943	μ' in 0.″001
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1551	59 Cygn	20 57 46.994	49.034	51.074	53.113	0	+47 17 9.58	17 23.62	17 37.66	17 51.71	+ 5
1552	ϑ Capr	21 2 34.592	37.965	41.338	44.710	+ 57	−17 28 20.67	28 6.40	27 52.11	27 37.83	− 54
1553	−0° 4161	21 3 28.638	31.717	34.796	37.876	+ 6	− 0 20 46.83	20 32.43	20 18.02	20 3.61	+ 15
1554	o Pavo	21 7*44.977	50.616	56.253	61.889	+ 86	−70 22 22.58	22 7.97	21 53.35	21 38.72	− 32
1555	γ Equl	21 7 25.402	28.320	31.237	34.155	+ 38	+ 9 53 19.94	53 34.42	53 48.89	54 3.37	−151
1556	58 G. Micr	21 9 44.093	47.651	51.209	54.767	+ 73	−27 51 54.98	51 40.33	51 25.68	51 11.03	−116
1557	24 G. Indi	21 13*47.900	51.989	56.078	60.166	− 24	−48 58 7.77	57 52.85	57 37.92	57 22.99	− 79
1558	σ Cygn	21 15 3.396	5.752	8.108	10.464	− 4	+39 8 32.61	8 47.68	9 2.75	9 17.83	− 2
1559	υ Cygn	21 15 26.892	29.358	31.824	34.291	+ 6	+34 38 38.77	38 53.86	39 8.96	39 24.06	− 2
1560	Grb 3434	21 17 44.881	46.809	48.738	50.667	+ 6	+52 48 12.33	48 27.56	48 42.79	48 58.02	0
1561	ι Capr	21 18*54.481	57.822	61.162	64.503	+ 22	−17 5 28.21	5 12.91	4 57.61	4 42.30	+ 6
1562	18 Aqar	21 20*54.865	58.144	61.422	64.700	+ 60	−13 8 11.78	7 56.36	7 40.94	7 25.52	+ 11
1563	γ Indi	21 21*59.437	63.720	68.004	72.286	+ 8	−54 55 15.12	54 59.61	54 44.09	54 28.57	+ 46
1564	2 G. Pegs	21 25 27.329	30.286	33.244	36.201	+ 4	+ 7 56 1.18	56 16.80	56 32.43	56 48.06	− 32
1565	2 Pegs	21 27 13.673	16.391	19.108	21.825	+ 13	+23 22 29.91	22 45.67	23 1.43	23 17.19	+ 6
1566	6 PscA	21 28 37.158	40.789	44.419	48.050	+ 6	−34 12 36.25	12 20.42	12 4.59	11 48.76	− 3
1567	3 G. Grus	21 29 30.715	34.605	38.495	42.384	− 18	−45 6 54.01	6 38.14	6 22.26	6 6.38	− 4
1568	ρ Cygn	21 31 43.279	45.535	47.791	50.047	− 25	+45 19 33.26	19 49.16	20 5.07	20 20.97	− 90
1569	ξ Aqar	21 34 33.519	36.712	39.906	43.099	+ 74	− 8 7 27.25	7 11.13	6 55.00	6 38.88	− 22
1570	5 Pegs	21 34*56.867	59.674	62.481	65.288	+ 70	+19 2 52.01	3 8.19	3 24.37	3 40.56	+ 16
1571	+35° 4626	21 43 11.700	14.243	16.787	19.330	+ 75	+35 34 47.43	35 4.02	35 20.62	35 37.22	+ 17
1572	ν Ceph	21 43 42.965	44.696	46.426	48.157	− 7	+60 50 36.44	50 53.05	51 9.65	51 26.26	+ 2
1573	13 G. Grus	21 44 22.148	26.053	29.957	33.860	+158[1])	−47 34 39.42	34 23.08	34 6.73	33 50.39	−295
1574	11 Pegs	21 44 11.397	14.439	17.481	20.523	+ 5	+ 2 24 28.24	24 44.87	25 1.51	25 18.14	+ 5
1575	14 Pegs	21 47 11.256	13.910	16.563	19.217	+ 10	+29 53 38.73	53 55.47	54 12.22	54 28.98	− 23
1576	127 G. Capr	21 47*59.927	63.342	66.758	70.173	+253	−23 33 2.74	32 46.02	32 29.29	32 12.56	− 84
1577	μ Capr	21 50 1.596	4.867	8.137	11.408	+211	−13 50 6.37	49 49.45	49 32.52	49 15.60	+ 13[2])
1578	Br 2880	21 52 5.398	6.102	6.806	7.509	+ 79	+73 25 6.04	25 23.07	25 40.10	25 57.14	+ 31
1579	Pi 21ʰ 339	21 53 35.505	38.309	41.114	43.919	− 3	+20 57 14.34	57 31.43	57 48.52	58 5.61	+ 19
1580	98 G. Aqar	21 55 47.246	50.375	53.504	56.632	− 4	− 4 39 22.72	39 5.80	38 48.88	38 31.96	−254
1581	λ Grus	22 2 30.321	33.939	37.556	41.173	− 18	−39 50 1.29	49 43.93	49 26.58	49 9.22	−114
1582	125 G. Aqar	22 11 23.389	26.637	29.885	33.133	− 8	−16 6 39.47	6 21.99	6 4.50	5 47.02	−352
1583	1 H. Lacr	22 11 17.970	20.545	23.120	25.695	+ 33	+39 24 59.80	25 17.65	25 35.49	25 53.34	+ 11
1584	47 Aqar	22 18 17.584	20.888	24.191	27.493	− 5	−21 53 58.78	53 40.76	53 22.74	53 4.72	− 84
1585	π Aqar	22 22 12.743	15.806	18.870	21.934	+ 10	+ 1 4 20.21	4 38.46	4 56.71	5 14.97	+ 4
1586	Pi 22ʰ 97	22 22 46.812	49.706	52.601	55.495	+ 13	+18 8 18.95	8 37.26	8 55.57	9 13.88	+ 39
1587	72 G. Indi	22 24 14.207	18.635	23.062	27.488	+277	−67 47 40.28	47 22.03	47 3.77	46 45.51	− 65
1588	36 Pegs	22 26 8.242	11.236	14.231	17.225	+ 36	+ 8 49 19.48	49 37.85	49 56.22	50 14.60	− 15
1589	Pi 22ʰ 120	22 26 21.340	24.151	26.961	29.772	+ 15	+26 27 21.09	27 39.48	27 57.87	28 16.26	− 5
1590	38 Pegs	22 27 16.924	19.667	22.411	25.155	+ 25	+32 15 53.94	16 12.35	16 30.77	16 49.19	− 12
1591	σ Aqar	22 27 28.378	31.552	34.727	37.902	0	−10 59 8.29	58 49.89	58 31.48	58 13.07	− 27
1592	β PscA	22 28 5.951	9.364	12.776	16.188	+ 53	−32 39 15.29	38 56.85	38 38.40	38 19.94	− 6
1593	ρ Ceph	22 29 22.032	22.569	23.106	23.642	− 13	+78 30 58.65	31 17.13	31 35.62	31 54.10	− 14
1594	Grb 3834	22 31 13.410	14.464	15.518	16.571	− 69	+75 55 1.52	55 20.08	55 38.63	55 57.19	− 2
1595	ϰ Aqar	22 34 38.955	42.062	45.168	48.275	− 48	− 4 32 16.94	31 58.39	31 39.83	31 21.26	−112
1596	45 Pegs	22 42 32.863	35.781	38.698	41.616	− 24	+19 2 59.19	3 18.16	3 37.14	3 56.11	+ 63
1597	68 Aqar	22 44 19.903	23.126	26.349	29.571	− 73	−19 55 36.44	55 17.68	54 58.91	54 40.15	−198
1598	−2° 5826	22 44 24.393	27.482	30.571	33.661	+ 3	− 2 6 19.12	6 0.16	5 41.19	5 22.22	+ 3
1599	69 G. Grus	22 47 37.611	41.028	44.444	47.860	+ 18	−39 28 30.29	28 11.24	27 52.19	27 33.14	− 7
1600	+36° 4956	22 52 14.924	17.714	20.503	23.293	+ 70	+36 45 23.81	45 43.00	46 2.19	46 21.38	+ 15

[1]) μ ab 1942.0: +0ˢ0159   [2]) μ' für 1943.0: +0.″014

Zusatzsterne des FK 3 für 1940.0—1943.0

Nr.	Name	Rektaszension				μ in 0ˢ.0001	Deklination				μ′ in 0″.001
		1940	1941	1942	1943		1940	1941	1942	1943	
		h m s	s	s	s		° ′ ″	′ ″	′ ″	′ ″	
1601	π PscA	23 0 10.864	14.185	17.505	20.825	+ 53	−35 4 27.08	4 7.62	3 48.17	3 28.71	+ 89
1602	β Pisc	23 0 49.337	52.389	55.442	58.495	+ 6	+ 3 29 48.03	30 7.40	30 26.78	30 46.16	− 3
1603	55 Pegs	23 3*58.801	61.823	64.845	67.866	+ 5	+ 9 5 6.11	5 25.55	5 44.99	6 4.43	− 8
1604	5 Andr	23 5 1.425	4.149	6.873	9.597	+152	+48 58 7.30	58 26.91	58 46.52	59 6.13	+139
1605	ι Grus	23 6*58.180	61.578	64.975	68.372	+124	−45 34 19.11	33 59.61	33 40.12	33 20.63	− 18
1606	59 Pegs	23 8 42.322	45.351	48.379	51.408	− 7	+ 8 23 38.24	23 57.78	24 17.33	24 36.87	− 1
1607	φ Aqar	23 11 12.903	16.010	19.117	22.224	+ 24	− 6 22 21.89	22 2.49	21 43.09	21 23.68	−190
1608	ψ^1 Aqar	23 12 44.922	48.065	51.209	54.352	+251	− 9 24 53.78	24 34.17	24 14.56	23 54.95	− 11
1609	ψ^3 Aqar	23 15 50.446	53.567	56.687	59.808	+ 30	− 9 56 20.48	56 0.80	55 41.13	55 21.45	+ 4
1610	12 Andr	23 17*59.124	62.018	64.912	67.807	+103	+37 51 15.99	51 35.64	51 55.28	52 14.92	− 66
1611	11 G. Scul	23 18 3.875	7.073	10.270	13.467	− 10	−27 18 56.23	18 36.53	18 16.83	17 57.14	− 12
1612	98 Aqar	23 19 49.269	52.420	55.571	58.722	− 87	−20 25 41.97	25 22.32	25 2.68	24 43.03	− 88
1613	67 Pegs	23 21*54.290	57.225	60.161	63.097	+ 8	+32 3 18.16	3 37.93	3 57.70	4 17.47	+ 4
1614	ϑ Pisc	23 24*55.370	58.413	61.456	64.499	− 84	+ 6 2 57.10	3 16.87	3 36.64	3 56.41	− 39
1615	+15° 4830	23 26 0.945	3.963	6.981	9.999	+ 1	+15 40 54.77	41 14.60	41 34.43	41 54.27	+ 9
1616	15 Andr	23 31 41.029	43.963	46.898	49.832	− 15	+39 54 19.88	54 39.73	54 59.59	55 19.44	− 38
1617	ι Phoe	23 31*51.215	54.444	57.672	60.900	+ 35	−42 56 49.13	56 29.23	56 9.33	55 49.43	+ 8
1618	μ Scul	23 37 29.455	32.604	35.752	38.901	− 74	−32 24 17.87	23 57.97	23 38.07	23 18.17	− 49
1619	ϰ Andr	23 37 26.709	29.663	32.617	35.571	+ 73	+44 0 5.83	0 25.76	0 45.70	1 5.63	− 15
1620	λ Pisc	23 38*59.020	62.081	65.142	68.203	− 88	+ 1 26 59.33	27 19.15	27 38.97	27 58.78	−143
1621	106 Aqar	23 41 5.439	8.551	11.663	14.774	+ 19	−18 36 35.97	36 15.99	35 56.01	35 36.02	+ 6
1622	ψ Andr	23 43 3.143	6.114	9.086	12.058	+ 6	+46 5 13.63	5 33.62	5 53.60	6 13.59	− 1
1623	20 Pisc	23 44*51.411	54.495	57.579	60.663	+ 60	− 3 5 42.64	5 22.63	5 2.62	4 42.61	+ 12
1624	Pi 23ʰ 194	23 46 19.796	22.901	26.006	29.110	− 3	−21 56 52.03	56 32.01	56 11.99	55 51.97	+ 12
1625	82 Pegs	23 49 33.331	36.391	39.451	42.511	− 16	+10 36 48.62	37 8.65	37 28.68	37 48.71	+ 7
1626	27 G. Phoe	23 51 30.110	33.258	36.405	39.552	+320	−40 38 4.40	37 44.33	37 24.27	37 4.21	+ 34
1627	Grb 4163	23 51*53.010	55.916	58.822	61.729	− 26	+74 4 34.91	4 54.94	5 14.97	5 35.00	− 1
1628	Pi 23ʰ 235	23 53 37.808	40.864	43.920	46.977	− 16	+22 18 51.29	19 11.33	19 31.37	19 51.41	+ 4
1629	ψ Pegs	23 54 41.800	44.856	47.912	50.969	− 27	+24 48 28.65	48 48.66	49 8.67	49 28.68	− 25
1630	30 Pisc	23 58*52.953	56.030	59.107	62.185	+ 34	− 6 20 50.85	20 30.84	20 10.83	19 50.82	− 33

Nr.	Name	Rektaszension 1940	1941	1942	1943	μ in 0s001	Deklination 1940	1941	1942	1943	μ' in 0''001

Nördliche Polsterne

Nr.	Name	1940 h m s	1941 s	1942 s	1943 s	μ	1940 ° ' "	1941 ' "	1942 ' "	1943 ' "	μ'
Nα	Br 256	2 7 20.52	29.62	38.74	47.86	+39	+83 16 55.10	17 12.09	17 29.07	17 46.04	— 40[1]
Nβ	Br 402	3 17* 44.70	58.79	72.90	88.02	+57	+84 42 15.26	42 28.16	42 41.04	42 53.90	—129
Nγ	+85° 74	5 10* 17.26	38.49	59.73	80.99	+24	+85 52 59.57	53 3.79	53 7.98	53 12.14	— 81
Nδ	Grb 944	5 42* 25.65	44.50	63.36	82.22	+12	+85 10 13.37	10 14.89	10 16.39	10 17.86	+ 3
Nε	Grb 1359	8 2* 49.86	64.31	78.74	93.16	— 8	+84 14 14.36	14 4.10	13 53.81	13 43.50	— 22
Nζ	+84° 196	9 3 10.75	23.38	36.00	48.60	+18	+84 25 34.70	25 20.34	25 5.96	24 51.57	+ 9
Nη	+86° 161	11 7 36.17	43.49	50.79	58.08	—41	+85 57 58.92	57 39.40	57 19.87	57 0.35	0[2]
Nϑ	Grb 1850	12 1 41.26	44.14	47.02	49.90	—50	+85 55 10.38	54 50.42	54 30.47	54 40.52	+ 88
Nι	Grb 2063	13 43 57.74	56.03	54.32	52.62	+21	+83 3 13.63	2 55.57	2 37.50	2 19.43	— 48
Nκ	Grb 2196	14 54 14.15	10.07	6.00	1.93	+90	+82 45 34.81	45 20.05	45 5.29	44 55.52	—233[3]
Nλ	Grb 2315	15 49 30.57	24.31	18.05	11.80	+ 4	+83 7 51.84	7 41.03	7 30.21	7 19.38	— 1
Nμ	Br 2412	18 31* 67.01	59.10	51.18	43.27	+ 6	+83 8 5.37	8 8.13	8 10.88	8 13.62	— 31
Nν	Grb 3212	20 7* 80.61	71.91	63.21	54.49	— 9	+84 29 50.84	30 1.44	30 12.03	30 22.61	— 41
Nξ	32 H. Ceph	22 18 21.45	16.75	12.03	7.29	+50	+85 48 25.67	48 43.82	49 1.97	49 20.12	+ 49
No	36 H. Ceph	22 54 57.74	57.29	56.84	56.39	+58	+84 1 31.13	1 50.40	2 9.68	2 28.95	+ 33
Nπ	V Ceph	23 53 35.81	38.61	41.41	44.22	+26	+82 51 25.84	51 45.89	52 5.94	52 26.00	+ 18

[1]) μ' ab 1941.0: —0''041 [2]) μ' ab 1941.0: +0''001 [3]) μ' ab 1941.0: —0''232

Südliche Polsterne

Nr.	Name	1940 h m s	1941 s	1942 s	1943 s	μ	1940 ° ' "	1941 ' "	1942 ' "	1943 ' "	μ'
Sα	σ Octn	0 12 16.55	16.53	16.53	16.53	+46[1]	—88 41 47.67	41 27.65	41 7.63	40 47.61	+ 3
Sβ	Lac 1029	2 29 32.36	23.88	15.42	6.99	+ 1	—85 59 12.01	58 56.10	58 40.18	58 24.26	— 21
Sγ	Lac 1848	2 41*101.99	73.71	45.59	17.62	—48	—88 24 37.63	24 22.43	24 7.21	23 51.97	— 22[2]
Sδ	12 G. Mens	4 29 43.40	36.37	29.34	22.32	—10	—83 1 55.49	1 47.79	1 40.08	1 32.37	+ 2
Sε	31 G. Mens	5 41 46.92	35.29	23.67	12.04	— 9[3]	—84 49 14.89	49 13.24	49 11.58	49 9.89	+ 48
Sζ	6 G. Octn	5 54*100.29	84.56	68.83	53.11	—15	—85 55 55.96	55 55.56	55 55.15	55 54.71	+ 4
Sη	7 G. Octn	7 7* 88.73	67.90	47.04	26.17	+10	—86 56 29.95	56 35.84	56 41.69	56 47.51	+ 3
Sϑ	A Octn	7 18*201.21	150.42	99.48	48.40	—10	—88 39 54.93	40 1.85	40 8.69	40 15.47	+ 15
Sι	10 G. Octn	10 34 44.24	40.72	37.19	33.65	— 2	—85 46 49.10	47 7.77	47 26.44	47 45.10	+ 4
Sκ	η Octn	10 59 46.86	46.43	45.99	45.55	—44	—84 16 16.01	16 35.37	16 54.73	17 14.09	— 5
Sλ	κ Octn	13 30* 49.47	59.01	68.57	78.14	—67	—85 28 49.24	29 7.75	29 26.26	29 44.76	— 22
Sμ	ρ Octn	15 29 8.33	22.04	35.76	49.49	+91	—84 16 14.05	16 26.22	16 38.36	16 50.50	+ 90
Sν	44 G. Octn	19 45 5.24	16.34	27.43	38.52	+ 5	—81 30 17.53	30 8.65	29 59.76	29 50.85	+ 1
Sξ	48 G. Octn	20 28* 37.09	51.49	65.88	80.25	+36	—84 36 59.52	36 47.42	36 35.31	36 23.18	— 20
So	B Octn	22 13* 40.32	82.45	124.13	165.35	+61	—89 7 36.57	7 18.67	7 0.74	6 42.80	— 41
Sπ	υ Octn	22 20* 44.38	56.02	67.62	79.21	—37	—86 16 29.72	16 11.47	15 53.20	15 34.93	+ 62

[1]) μ ab 1942.0: +0s045 [2]) μ' ab 1942.0: —0''021 [3]) μ für 1943.0: —0s008

Alphabetisches Sachregister

Seite